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PEOPLES GAS

2011 DEPRECIATION STUDY

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PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
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COMPANY BACKGROUND

For more than 100 years, Peoples Gas System (PGS) has provided Florida residents and businesses with reliable, economical natural gas products and service. As the state's leading natural gas provider, PGS serves more than 330,000 commercial, industrial and residential customers. PGS is Florida's largest natural gas distribution company with retail operations in many of the state's major metropolitan communities. Our service area includes all or a portion of 32 counties within the state. Gas is delivered to the PGS system through three interstate pipelines. PGS does not engage in the exploration for or production of natural gas. The system includes approximately 11,000 miles of mains and 6,500 miles of service lines. The company headquarters is located in Tampa, Florida.

CHANGE IN DEPRECIATION

The proposed changes in depreciation rates and recovery schedules indicate the following functional changes in annual depreciation (in dollars):

Distribution	($241,716)
Transportation Equipment	(92,195)
General Plant	194,712
Total Change	**($139,199)**

The following schedules and narratives summarize the changes in depreciation rate components, annual depreciation expense, and the adequacy of the reserve for each depreciable category of plant based on the Peoples Gas System and the industry's expectations and recent experience. The study is organized into functional groups. Distribution and General Plant is organized by plant account or sub-account. The proposed depreciation rates are at the account or sub-account level for all functions.

PEOPLES GAS SYSTEM

There are no significant changes since the last Peoples Gas System (PGS) filing related to average service lives and curves types. Some accounts indicate the need for changes in net salvage. In past studies, theoretical reserve surpluses and deficiencies were not addressed for every account, producing 2011 study results calling for inappropriate and negative rates. Most accounts have been reset to the theoretical reserve calculation. This was done to synchronize each account with the whole life rate to stabilize rates fluctuations. As a result, the 2011 study indicates an overall decrease in depreciation expense accrual of ($139,199). In addition, the previously approved study showed a theoretical reserve deficiency of approximately ($46,500,000). The 2011 study indicates a theoretical reserve deficiency of ($22,863,508) before $6,150,000 is transferred into the reserve as authorized in Order No. PSC-11-0111-PAA-GU ("2010 Earnings Order").

DISTRIBUTION PLANT:

Account 37402 - Land Rights

The study indicated an average service life of 50 years. PGS proposes the use of an average service life of 75 years and 0% net salvage for land rights.

Account 37500 - Structures & Improvements

The study indicated an average service life of 30 years. PGS feels this indication is too short due to the retirement of only minor items of property that were removed; with the exception of two buildings that were retired due to a decision to relocate. PGS therefore proposes the use of an average service life of 40 years, which would be more realistic and as previously prescribed. Since the sale of the buildings produced all of the salvage, PGS therefore proposes use of the previously prescribed 0% net salvage.

Account 37600 - Mains, Other than Plastic

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 60 years. However, due to the lack of sufficient data PGS proposes the

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use of an average service life of 40 years as previously prescribed. The study indicated a 5-year negative net salvage of 99%. The study indicated a cumulative annual negative net salvage of 59%. Removal costs are incurred in today's dollar, while a majority of the main line retirements reflect labor and material costs from over 30 years ago. PGS does not feel an increase to the 5-year average levels would be appropriate. Therefore, PGS proposes an increase to 60% negative net salvage versus the previously approved 50% negative net salvage. PGS proposes reserve transfers to this account in accordance with the 2010 Earnings Order.

Account 37602 - Mains, Plastic

The study indicated an average service life of 39 years. Plastic pipe technology is relatively new and the vintage survivors in this account better match the retirement data available from only 1983 - 2011. PGS therefore proposes the use of an average service life of 40 years as previously prescribed. The study indicated a 5-year negative net salvage of 59%. The study indicated a cumulative annual negative net salvage of 29%. Removal costs are incurred in today's dollar, while a majority of the main line retirements reflect labor and material costs from over 30 years ago. PGS does not feel an increase to the 5-year average levels would be appropriate. Therefore, PGS proposes an increase to 25% negative net salvage versus the previously approved 15% negative net salvage. PGS proposes reserve transfers to this account in accordance with the 2010 Earnings Order.

Account 37800 - Measuring & Regulating Station Equipment General

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 35 years. However due to the lack of sufficient data PGS proposes the use of an average service life of 31 years as previously prescribed. The study indicated 5-year negative net salvage of 64%. The study indicated a cumulative annual negative net salvage of 21%. This is due to special disposal of 2 older odorant injection systems, as well as the closing of an entire substation at the request of JEA. PGS proposes use of the previously prescribed 5% negative net salvage.

Account 37900 - Measuring & Regulating Station Equipment City Gate

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 42 years. However, due to the lack of sufficient data PGS proposes the use of an average service life of 31 years as previously prescribed. The study indicated 5-year negative net salvage of 91%. The study indicated a cumulative annual negative net salvage of 27%. Like account 37800, this is due to special disposal of older injection systems. PGS proposes use of the previously prescribed 5% negative net salvage.

Account 38000 - Service Lines, Other than Plastic

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 49 years. However, due to the lack of sufficient data PGS proposes the use of an average service life of 32 years as previously prescribed. The study indicated a 5-year negative net salvage of 223%. The study indicated a cumulative annual negative net salvage of 146%. Removal costs are incurred in today's dollar, while a majority of the service line retirements reflect labor and material costs from over 30 years ago. PGS does not feel an increase to the 5-year average levels would be appropriate. Therefore, PGS proposes an increase to 100% negative net salvage versus the previously approved 90% negative net salvage. PGS proposes reserve transfers to this account in accordance with the 2010 Earnings Order.

Account 38002 - Service Lines Plastic

The study indicated an average service life of 39 years. Plastic pipe technology is relatively new and the vintage survivors in this account better match the retirement data available from only 1983 - 2011. PGS therefore proposes the use of an average service life of 32 years as previously prescribed. The study indicated a 5-year negative net salvage of 70%. The study indicated a cumulative annual negative net salvage of 58%. Removal costs are incurred in today's dollar, while a majority of the service line retirements reflect labor and material costs from over 30 years ago. PGS does not feel an increase to the 5-year average levels would be appropriate. Therefore, PGS proposes an increase to 55% negative net salvage versus the previously approved 50% negative net salvage. PGS proposes reserve transfers to this account in accordance with the 2010 Earnings Order.

Account 38100 - Meters

The study indicated an average service life of 22 years. The actuarial analysis of the account history conflicts with the previous study changing from cradle-to-grave to location life accounting. Therefore, PGS proposes the use of an average service life of 16 years as previously prescribed. The study indicated a 5-year net salvage of 9%. PGS proposes an increase to 5% net salvage versus the previously approved 3% net salvage.

Account 38200 - Meter Installations

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 40 years. In previous studies, the company and staff agreed that the life of meters installations and regulator installations should follow that of service lines. Installations are rarely retired prior to the date the service ends or the meter is removed due to inactivity. Also, both parties agreed that installation lives could be five years less than the life of the service line, but not be less than the life of the meter. PGS therefore proposes the use of an average service life of 27 years as previously prescribed. The study indicated a 5-year negative net salvage of 25%. The study indicated a cumulative annual negative net salvage of 26%. PGS proposes use of the previously prescribed 20% negative net salvage.

Account 38300 - Regulators

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 36 years. However, due to the lack of sufficient data PGS proposes the use of an average service life of 28 years as previously prescribed. The study indicated 5-year net salvage of 10%. The study indicated a cumulative annual net salvage of 1%. PGS proposes use of the previously prescribed 0% net salvage.

Account 38400 - Regulator Installations

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 39 years. Like account 38200, in previous studies the company and staff agreed that the life of meters installations and regulator installations should follow that of service lines. Installations are rarely retired prior to the date the service ends or the meter

is removed due to inactivity. Also, both parties agreed that installation lives could be five years less than the life of the service line, but not be less than the life of the meter. PGS therefore proposes the use of an average service life of 27 years as previously prescribed. The study indicated a 5-year negative net salvage of 25%. The study indicated a cumulative annual negative net salvage of 55%. PGS proposes use of the previously prescribed 20% negative net salvage.

Account 38500 - Industrial Installations

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 37 years. However, due to the lack of sufficient data PGS proposes the use of an average service life of 32 years as previously prescribed. The study indicated 5-year negative net salvage of 1%. The study indicated a cumulative annual negative net salvage of 2%. PGS proposes a decrease to 0% net salvage versus the previously approved 3% negative net salvage.

Account 38700 - Other Distribution Equipment

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 23 years. However, due to the lack of sufficient data PGS proposes the use of an average service life of 16 years as previously prescribed. The study indicated 5-year negative net salvage of 0%. The study indicated a cumulative annual negative net salvage of 0%. PGS proposes use of the previously prescribed 0% net salvage.

TRANSPORTATION EQUIPMENT:

Account 39201 - Vehicles Up to ¾ Ton

The study indicated an average service life of 8 years. PGS proposes the use of an average service life of 8 years as previously prescribed. The study indicated 5-year net salvage of 6%. The study indicated a cumulative annual net salvage of 9%. PGS proposes use of the previously prescribed 10% net salvage.

Account 39202 - Vehicles ¾ to 1 Ton

The study indicated an average service life of 10 years. PGS proposes the use of an average service life of 7 years as previously prescribed. The study indicated 5-year net salvage of 7%. The study indicated a cumulative annual net salvage of 8%. PGS proposes use of the previously prescribed 10% net salvage.

Account 39203 - Airplane

The airplane was retired in 2009. They are no more assets in the account. In the event a new airplane is purchased (the company has no plans to do so), PGS would propose the use of an average service life of 15 years as previously prescribed. PGS proposes use of the previously prescribed 75% net salvage.

Account 39204 - Trailers and Other

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 25 years. However, due to the lack of sufficient data PGS proposes the use of an average service life of 20 years as previously prescribed. The study indicated 5-year net salvage of 17%. The study indicated a cumulative annual net salvage of 14%. PGS proposes an increase to 20% net salvage versus the previously approved 14% net salvage.

Account 39205 - Vehicles Over 1 Ton

The study indicated an average service life of 13 years. PGS proposes the use of an average service life of 12 years as previously prescribed. The study indicated 5-year net salvage of 5%. The study indicated a cumulative annual net salvage of 7%. PGS proposes use of the previously prescribed 10% net salvage.

GENERAL PLANT:

Account 39000 - Structures & Improvements

The study indicated an average service life of 5 years. PGS feels this indication is too short for long-term structures. PGS therefore propose the use of an average service life of 40 years as previously prescribed. The study indicated 5-year net salvage of 84%. The study

indicated a cumulative annual net salvage of 53%. PGS presently has minor items in the account and a historical net salvage analysis skewing results. PGS therefore proposes use of the previously prescribed 0% net salvage.

Account 39100 - Office Furniture

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 17 years. However, due to lack of sufficient data PGS proposes the use of an average service life of 15 years as previously prescribed. The study indicated 5-year net salvage of 0%. The study indicated a cumulative annual net salvage of 1%. PGS proposes use of the previously prescribed 0% net salvage.

Account 39101 - Computer Equipment

The study indicated an average service life of 9 years. PGS proposes the use of an average service life of 8 years as previously prescribed. The study indicated 5-year net salvage of 0%. The study indicated a cumulative annual net salvage of 1%. PGS proposes use of the previously prescribed 0% net salvage.

Account 39102 - Office Machines

The study indicated an average service life of 15 years. PGS proposes the use of an average service life of 15 years as previously prescribed. The study indicated 5-year net salvage of 0%. The study indicated a cumulative annual net salvage of 1%. PGS proposes use of the previously prescribed 0% net salvage.

Account 39300 - Stores Equipment

The study indicated an average service life of 22 years. PGS proposes the use of an average service life of 25 years as previously prescribed. The study indicated 5-year net salvage of 33%. The study indicated a cumulative annual net salvage of 4%. PGS proposes use of the previously prescribed 0% net salvage.

Account 39400 - Tools, Shop & Garage Equipment

The study indicated an average service life of 23 years. PGS proposes the use of an average service life of 15 years as previously prescribed. The study indicated 5-year net salvage of 3%. The study indicated a cumulative annual net salvage of 1%. PGS proposes use of the previously prescribed 0% net salvage.

Account 39500 - Laboratory Equipment

The study indicated an average service life of 17 years. PGS proposes the use of an average service life of 20 years as previously prescribed. The study indicated 5-year net salvage of 0%. The study indicated a cumulative annual net salvage of 4%. PGS proposes use of the previously prescribed 0% net salvage.

Account 39600 - Power Operated Equipment

The study indicated an average service life of 18 years. PGS proposes the use of an average service life of 15 years as previously prescribed. The study indicated 5-year net salvage of 11%. The study indicated a cumulative annual net salvage of 7%. PGS proposes use of the previously prescribed 5% net salvage.

Account 39700 - Communications Equipment

The study indicated an average service life of 14 years. PGS proposes the use of an average service life of 12 years as previously prescribed. The study indicated 5-year net salvage of 0%. The study indicated a cumulative annual net salvage of 1%. PGS proposes use of the previously prescribed 0% net salvage.

Account 39800 - Miscellaneous Equipment

Due to limited retirement data available from only 1983 - 2011, the study indicated an average service life of 25 years. However due to the lack of sufficient data PGS proposes the use of an average service life of 17 years as previously prescribed. The study indicated 5-year net salvage of 0%. The study indicated a cumulative annual negative net salvage of 2%. PGS proposes use of the previously prescribed 0% net salvage.

PEOPLES GAS SYSTEM
2011 Depreciation Rate Review
Change in Annual Accruals

Account Number	Account Title	Current Rates - Effective 2006 - 2011				Company Proposed - Effective 1/1/2012					
						Whole Life			Remaining Life		
		Total Plant Cost 12/31/2011	Post Transfer Accumulated Reserve 12/31/2011	Depre-ciation Rate	Depre-ciation Expense	Depre-ciation Rate	Depre-ciation Expense	Change in Depreciation Expense	Depre-ciation Rate	Depre-ciation Expense	Change in Depreciation Expense
		($)	($)	(%)	($)	(%)	($)	($)	(%)	($)	($)
	Distribution Plant										
37402	Land Rights	2,576,369	565,700	3.1	79,867	1.3	33,493	(46,374)	1.3	33,493	(46,374)
37500	Structures & Improvements	18,431,728	6,064,814	2.8	516,088	2.5	460,793	(55,295)	2.5	460,793	(55,295)
37600	Mains Steel	314,118,682	176,078,117	4.0	12,564,747	4.0	12,564,747	-	4.2	13,192,985	628,238
37602	Mains Plastic	309,948,972	97,320,087	2.9	8,988,520	3.1	9,608,418	619,898	3.1	9,608,418	619,898
37800	Meas & Reg Station Eqp Gen	8,624,202	1,789,055	3.3	284,599	3.4	293,223	8,624	3.4	293,223	8,624
37900	Meas & Reg Station Eqp City	18,849,587	3,822,462	3.4	640,886	3.4	640,886	-	3.4	640,886	-
38000	Services Steel	40,331,991	44,701,297	8.0	3,226,559	6.3	2,540,915	(685,644)	6.6	2,661,911	(564,648)
38002	Services Plastic	194,766,424	97,222,117	5.1	9,933,088	4.8	9,348,788	(584,300)	5.0	9,738,321	(194,767)
38100	Meters	47,683,261	13,902,204	6.6	3,147,095	5.9	2,813,312	(333,783)	5.9	2,813,312	(333,783)
38200	Meter Installations	42,190,612	19,637,263	5.0	2,109,531	4.4	1,856,387	(253,144)	4.5	1,898,578	(210,953)
38300	House Regulators	12,215,576	4,761,181	3.5	427,545	3.6	439,761	12,216	3.6	439,761	12,216
38400	House Regulator Installs	16,396,044	7,547,522	5.1	836,198	4.4	721,426	(114,772)	4.5	737,822	(98,376)
38500	Meas & Reg Station Eqp Ind	9,526,945	4,849,718	3.4	323,916	3.1	295,335	(28,581)	3.1	295,335	(28,581)
38600	Other Property Cust Premise	-	-	10.0	-	6.7	-	-	6.7	-	-
38700	Other Equipment	3,680,913	1,399,168	5.7	209,812	6.3	231,897	22,085	6.3	231,897	22,085
	Total Distribution Plant	**1,039,341,306**	**479,660,705**	**4.2**	**43,288,451**	**4.0**	**41,849,381**	**(1,439,070)**	**4.1**	**43,046,735**	**(241,716)**

PEOPLES GAS SYSTEM
2011 Depreciation Rate Review
Change in Annual Accruals

Account Number	Account Title	Current Rates - Effective 2006 - 2011				Company Proposed - Effective 1/1/2012					
						Whole Life			Remaining Life		
		Total Plant Cost 12/31/2011	Post Transfer Accumulated Reserve 12/31/2011	Depre-ciation Rate	Depre-ciation Expense	Depre-ciation Rate	Depre-ciation Expense	Change in Depreciation Expense	Depre-ciation Rate	Depre-ciation Expense	Change in Depreciation Expense
		($)	($)	(%)	($)	(%)	($)	($)	(%)	($)	($)
	Transportation Equipment										
39201	Vehicles up to 1/2 Tons	8,097,623	2,944,147	10.6	858,348	11.3	915,031	56,683	11.2	906,934	48,586
39202	Vehicles from 1/2 - 1 Tons	5,315,853	2,554,819	14.8	786,746	12.9	685,745	(101,001)	12.7	675,113	(111,633)
39203	Airplane	-	-	1.9	-	1.7	-	-	1.7	-	-
39204	Trailers & Other	270,367	139,215	4.1	11,085	4.0	10,815	(270)	4.0	10,815	(270)
39205	Vehicles over 1 Ton	1,155,098	636,652	9.9	114,355	7.5	86,632	(27,723)	7.4	85,477	(28,878)
	General Plant										
30100	Organization Costs	12,620	3,116	0.0	-	0.0	-	-	0.0	-	-
30200	Franchise & Consents	427,466	433,126	4.0	17,099	4.0	17,099	-	4.0	17,099	-
30300	Misc Intangible Plant	815,325	583,555	4.0	32,613	4.0	32,613	-	4.0	32,613	-
30301	Custom Intangible Plant	18,414,205	15,058,585	6.7	1,233,752	6.7	1,233,752	-	6.7	1,233,752	-
39000	Structures & Improvements	80,558	8,547	2.9	2,336	2.5	2,014	(322)	2.5	2,014	(322)
39100	Office Furniture	7,903,408	1,377,357	7.6	600,659	6.7	529,528	(71,131)	6.7	529,528	(71,131)
39101	Computer Equipment	7,551,267	4,619,936	7.2	543,691	12.5	943,908	400,217	12.5	943,908	400,217
39102	Office Equipment	530,536	253,074	7.0	37,138	6.7	35,546	(1,592)	6.7	35,546	(1,592)
39300	Stores Equipment	48,913	44,005	1.8	880	4.0	1,957	1,077	4.0	1,957	1,077
39400	Tools, Shop & Garage Equip	4,792,761	2,309,504	6.0	287,566	6.7	321,115	33,549	6.6	316,322	28,756
39500	Laboratory Equipment	46,445	27,189	5.2	2,415	5.0	2,322	(93)	5.0	2,322	(93)
39600	Power Operated Equipment	2,009,238	1,164,572	5.2	104,480	6.3	126,582	22,102	6.4	128,591	24,111
39700	Communication Equipment	6,451,401	3,745,491	11.4	735,460	8.3	535,466	(199,994)	8.4	541,918	(193,542)
39800	Miscellaneous Equipment	451,918	262,983	4.3	19,432	5.9	26,663	7,231	5.9	26,663	7,231
	Total General Plant	**64,375,003**	**36,165,873**	**8.4**	**5,388,055**	**8.6**	**5,506,788**	**118,733**	**8.5**	**5,490,572**	**102,517**
	Total Transmission, Distribution & General	**1,103,716,309**	**515,826,578**	**4.4**	**48,676,506**	**4.3**	**47,356,169**	**(1,320,337)**	**4.4**	**48,537,307**	**(139,199)**

PEOPLES GAS SYSTEM
2011 Depreciation Rate Review
Comparison of Rates and Components

Account Number	Account Title	Current Rates - Effective 2006 - 2011						Company Proposed - Effective 1/1/2012								
								Whole Life				Remaining Life				
		Curve Type	Average Service Life	Average Remaining Life	Future Net Salvage	Reserve Ratio 2005	Depreciation Rate	Curve Type	Average Service Life	Future Net Salvage	Whole Life Rate	Average Age	Round Average Remaining Life	Future Net Salvage	Reserve Ratio 2011	Round Depreciation Rate
			(yrs)	(yrs)	(%)	(%)	(%)		(yrs)	(%)	(%)	(yrs)	(yrs)	(%)	(%)	(%)
	Distribution Plant												File			File
		Confirm	Confirm	Confirm	Confirm	Confirm	Confirm	Dep Val	Dep Val	Dep Val		Dep Val				
37402	Land Rights		32				3.1	SQ	75	0	1.3	16.5	59.0	0	21.96	1.3
37500	Structures & Improvements	R3	40	28.0	0	21.90	2.8	R3	40	0	2.5	14.6	27.0	0	32.90	2.5
37600	Mains Steel	R3	40	25.0	(50)	50.90	4.0	R3	40	(60)	4.0	16.9	25.0	(60)	56.05	4.2
37602	Mains Plastic	R3	40	31.0	(15)	24.00	2.9	R3	40	(25)	3.1	11.2	30.0	(25)	31.40	3.1
37800	Meas & Reg Station Eqp Gen	R1	31	24.0	(5)	25.00	3.3	R1	31	(5)	3.4	9.1	25.0	(5)	20.74	3.4
37900	Meas & Reg Station Eqp City	R1	31	24.0	(5)	24.40	3.4	R1	31	(5)	3.4	8.8	25.0	(5)	20.28	3.4
38000	Services Steel	R3	32	12.8	(90)	87.50	8.0	R3	32	(100)	6.3	24.3	13.6	(100)	110.83	6.6
38002	Services Plastic	R3	32	23.0	(50)	32.10	5.1	R3	32	(55)	4.8	11.8	21.0	(55)	49.92	5.0
38100	Meters	L1	16	11.2	3	22.60	6.6	L1	16	5	5.9	7.9	11.1	5	29.16	5.9
38200	Meter Installations	R4	27	17.4	(20)	32.80	5.0	R4	27	(20)	4.4	11.8	16.5	(20)	46.54	4.5
38300	House Regulators	R2	28	17.3	0	38.60	3.5	R2	28	0	3.6	14.1	17.1	0	38.98	3.6
38400	House Regulator Installs	R4	27	18.0	(20)	28.40	5.1	R4	27	(20)	4.4	11.2	16.6	(20)	46.03	4.5
38500	Meas & Reg Station Eqp Ind	R4	32	20.0	(3)	34.40	3.4	R4	32	0	3.1	17.2	15.7	0	50.91	3.1
38600	Other Property Cust Premise	R1	10	10.0	0	0.00	10.0	R1	15	0	6.7	0.0	15.0	0	0.00	6.7
38700	Other Equipment	S2	16	9.1	0	47.70	5.7	S2	16	0	6.3	7.5	9.9	0	38.01	6.3

PEOPLES GAS SYSTEM
2011 Depreciation Rate Review
Comparison of Rates and Components

Account Number	Account Title	Current Rates - Effective 2006 - 2011						Company Proposed - Effective 1/1/2012								
								Whole Life				Remaining Life				
		Curve Type	Average Service Life	Average Remaining Life	Future Net Salvage	Reserve Ratio 2005	Depre-ciation Rate	Curve Type	Average Service Life	Future Net Salvage	Whole Life Rate	Average Age	Round Average Remaining Life	Future Net Salvage	Reserve Ratio 2011	Round Depre-ciation Rate
			(yrs)	(yrs)	(%)	(%)	(%)		(yrs)	(%)	(%)	(yrs)	(yrs)	(%)	(%)	(%)
	Transportation Equipment															
39201	Vehicles up to 1/2 Tons	S1	8	4.0	10	47.40	10.6	S1	8	10	11.3	4.5	4.8	10	36.36	11.2
39202	Vehicles from 1/2 - 1 Tons	S1	7	3.9	10	32.20	14.8	S1	7	10	12.9	5.4	3.3	10	48.06	12.7
39203	Airplane	S4	15	10.5	75	5.50	1.9	S4	15	75	1.7	0.0	15.0	75	0.00	1.7
39204	Trailers & Other	S3	20	8.5	14	14.00	4.1	S3	20	20	4.0	15.9	7.1	20	51.49	4.0
39205	Vehicles over 1 Ton	S4	12	3.7	10	53.20	9.9	S4	12	10	7.5	9.1	4.7	10	55.12	7.4
	General Plant															
30100	Organization Costs			Not Depreciable			0.0		Not Depreciable		0.0		Not Depreciable			0.0
30200	Franchise & Consents			25 year Amortizable			4.0		25 year Amortizable		4.0		25 year Amortizable			4.0
30300	Misc Intangible Plant			25 year Amortizable			4.0		25 year Amortizable		4.0		25 year Amortizable			4.0
30301	Custom Intangible Plant			15 year Amortizable			6.7		15 year Amortizable		6.7		15 year Amortizable			6.7
39000	Structures & Improvements	R3	40	29.0	0	17.10	2.9	R3	40	0	2.5	4.3	36.0	0	10.61	2.5
39100	Office Furniture	R1	15	8.7	0	33.60	7.6	R1	15	0	6.7	4.3	12.4	0	17.43	6.7
39101	Computer Equipment	S2	8	3.1	0	77.70	7.2	S2	8	0	12.5	7.0	3.1	0	61.18	12.5
39102	Office Equipment	R1	15	8.1	0	43.70	7.0	R1	15	0	6.7	11.7	7.8	0	47.70	6.7
39300	Stores Equipment	S4	25	2.4	0	95.60	1.8	S4	25	0	4.0	33.4	2.5	0	89.97	4.0
39400	Tools, Shop & Garage Equip	S1	15	6.4	0	61.70	6.0	S1	15	0	6.7	11.3	7.8	0	48.19	6.6
39500	Laboratory Equipment	S1	20	11.7	0	39.00	5.2	S1	20	0	5.0	16.0	8.3	0	58.54	5.0
39600	Power Operated Equipment	S4	15	4.1	5	73.60	5.2	S4	15	5	6.3	11.5	5.8	5	57.96	6.4
39700	Communication Equipment	S3	12	5.8	0	34.20	11.4	S3	12	0	8.3	8.8	5.0	0	58.06	8.4
39800	Miscellaneous Equipment	R2	17	9.8	0	57.70	4.3	R2	17	0	5.9	13.4	7.1	0	58.19	5.9

PEOPLES GAS SYSTEM
2011 Depreciation Rate Review
Comparison of Reserve - Actual vs Theoretical

Account Number	Account Title	Total Plant Cost 12/31/2011	Post Transfer Accumulated Reserve 12/31/2011	Reserve Ratio	Theoretical Reserve Amount	Theoretical Reserve Ratio	Actual Minus Theoretical	Actual over Theoretical
		($)	($)	(%)	($)	($)	($)	(%)
	Distribution Plant							
		ASR						
37402	Land Rights	2,576,369	565,700	21.96	565,700	21.96	-	100
37500	Structures & Improvements	18,431,728	6,064,814	32.90	6,064,814	32.90	-	100
37600	Mains Steel	314,118,682	176,078,117	56.05	183,163,910	58.31	(7,085,793)	96
37602	Mains Plastic	309,948,972	97,320,087	31.40	101,236,474	32.66	(3,916,387)	96
37800	Meas & Reg Station Eqp Gen	8,624,202	1,789,055	20.74	1,789,055	20.74	-	100
37900	Meas & Reg Station Eqp City	18,849,587	3,822,462	20.28	3,822,462	20.28	-	100
38000	Services Steel	40,331,991	44,701,297	110.83	46,500,181	115.29	(1,798,884)	96
38002	Services Plastic	194,766,424	97,222,117	49.92	101,134,561	51.93	(3,912,444)	96
38100	Meters	47,683,261	13,902,204	29.16	13,902,204	29.16	-	100
38200	Meter Installations	42,190,612	19,637,263	46.54	19,637,263	46.54	-	100
38300	House Regulators	12,215,576	4,761,181	38.98	4,761,181	38.98	-	100
38400	House Regulator Installs	16,396,044	7,547,522	46.03	7,547,522	46.03	-	100
38500	Meas & Reg Station Eqp Ind	9,526,945	4,849,718	50.91	4,849,718	50.91	-	100
38600	Other Property Cust Premise	-	-	0.00	-	0.00	-	0
38700	Other Equipment	3,680,913	1,399,168	38.01	1,399,168	38.01	-	100
	Total Distribution Plant	**1,039,341,306**	**479,660,705**	**46.15**	**496,374,213**	**47.76**	**(16,713,508)**	**97**

PEOPLES GAS SYSTEM
2011 Depreciation Rate Review
Comparison of Reserve - Actual vs Theoretical

Account Number	Account Title	Total Plant Cost 12/31/2011	Post Transfer Accumulated Reserve 12/31/2011	Reserve Ratio	Theoretical Reserve Amount	Theoretical Reserve Ratio	Actual Minus Theoretical	Actual over Theoretical
		($)	($)	(%)	($)	($)	($)	(%)
	Transportation Equipment							
39201	Vehicles up to 1/2 Tons	8,097,623	2,944,147	36.36	2,944,147	36.36	-	100
39202	Vehicles from 1/2 - 1 Tons	5,315,853	2,554,819	48.06	2,554,819	48.06	-	100
39203	Airplane	-	-	0.00	-	0.00	-	0
39204	Trailers & Other	270,367	139,215	51.49	139,215	51.49	-	100
39205	Vehicles over 1 Ton	1,155,098	636,652	55.12	636,652	55.12	-	100
	General Plant							
30100	Organization Costs	12,620	3,116	24.69	3,116	24.69	-	100
30200	Franchise & Consents	427,466	433,126	101.32	433,126	101.32	-	100
30300	Misc Intangible Plant	815,325	583,555	71.57	583,555	71.57	-	100
30301	Custom Intangible Plant	18,414,205	15,058,585	81.78	15,058,585	81.78	-	100
39000	Structures & Improvements	80,558	8,547	10.61	8,547	10.61	-	100
39100	Office Furniture	7,903,408	1,377,357	17.43	1,377,357	17.43	-	100
39101	Computer Equipment	7,551,267	4,619,936	61.18	4,619,936	61.18	-	100
39102	Office Equipment	530,536	253,074	47.70	253,074	47.70	-	100
39300	Stores Equipment	48,913	44,005	89.97	44,005	89.97	-	100
39400	Tools, Shop & Garage Equip	4,792,761	2,309,504	48.19	2,309,504	48.19	-	100
39500	Laboratory Equipment	46,445	27,189	58.54	27,189	58.54	-	100
39600	Power Operated Equipment	2,009,238	1,164,572	57.96	1,164,572	57.96	-	100
39700	Communication Equipment	6,451,401	3,745,491	58.06	3,745,491	58.06	-	100
39800	Miscellaneous Equipment	451,918	262,983	58.19	262,983	58.19	-	100
	Total General Plant	**64,375,003**	**36,165,873**	**56.18**	**36,165,873**	**56.18**	**-**	**100**
	Total Transmission, Distribution & General	**1,103,716,309**	**515,826,578**	**46.74**	**532,540,086**	**48.25**	**(16,713,508)**	**97**

PEOPLES GAS SYSTEM
2011 Depreciation Rate Review
Summary of Reserve Transfers

Account Number	Account Title	Before Reserve Transfers 12/31/2011 ($)	Proposed Reserve Transfers ($)	After Reserve Transfers 12/31/2011 ($)
	Distribution Plant			
		ASR		
37402	Land Rights	1,232,891	(667,191)	565,700
37500	Structures & Improvements	5,473,810	591,004	6,064,814
37600	Mains Steel	179,473,976	(3,395,859)	176,078,117
37602	Mains Plastic	89,649,405	7,670,682	97,320,087
37800	Meas & Reg Station Eqp Gen	1,997,742	(208,687)	1,789,055
37900	Meas & Reg Station Eqp City	4,769,071	(946,609)	3,822,462
38000	Services Steel	43,566,123	1,135,173	44,701,297
38002	Services Plastic	91,679,729	5,542,388	97,222,117
38100	Meters	16,528,447	(2,626,243)	13,902,204
38200	Meter Installations	17,956,213	1,681,050	19,637,263
38300	House Regulators	5,512,199	(751,018)	4,761,181
38400	House Regulator Installs	6,371,179	1,176,343	7,547,522
38500	Meas & Reg Station Eqp Ind	4,887,430	(37,712)	4,849,718
38600	Other Property Cust Premise	-	-	-
38700	Other Equipment	1,670,466	(271,298)	1,399,168
	Total Distribution Plant	**470,768,681**	**8,892,024**	**479,660,705**

PEOPLES GAS SYSTEM
2011 Depreciation Rate Review
Summary of Reserve Transfers

Account Number	Account Title	Before Reserve Transfers 12/31/2011 ($)	Proposed Reserve Transfers ($)	After Reserve Transfers 12/31/2011 ($)
	Transportation Equipment			
39201	Vehicles up to 1/2 Tons	3,527,826	(583,679)	2,944,147
39202	Vehicles from 1/2 - 1 Tons	3,574,150	(1,019,331)	2,554,819
39203	Airplane	(3,512,118)	3,512,118	-
39204	Trailers & Other	177,152	(37,937)	139,215
39205	Vehicles over 1 Ton	769,330	(132,678)	636,652
	General Plant			
30100	Organization Costs	3,116	-	3,116
30200	Franchise & Consents	433,126	-	433,126
30300	Misc Intangible Plant	583,555	-	583,555
30301	Custom Intangible Plant	15,058,585	-	15,058,585
39000	Structures & Improvements	42,259	(33,712)	8,547
39100	Office Furniture	1,438,351	(60,994)	1,377,357
39101	Computer Equipment	7,045,697	(2,425,761)	4,619,936
39102	Office Equipment	261,921	(8,847)	253,074
39300	Stores Equipment	49,739	(5,734)	44,005
39400	Tools, Shop & Garage Equip	3,016,859	(707,355)	2,309,504
39500	Laboratory Equipment	(13,696)	40,885	27,189
39600	Power Operated Equipment	1,488,663	(324,091)	1,164,572
39700	Communication Equipment	4,634,813	(889,322)	3,745,491
39800	Miscellaneous Equipment	328,570	(65,587)	262,983
	Total General Plant	**38,907,897**	**(2,742,024)**	**36,165,873**
	Total Transmission, Distribution & General	**509,676,578**	**6,150,000**	**515,826,578**

PEOPLES GAS SYSTEM
Comparative Analysis
2011 Depreciation Rate Review

Account Number	Account Title	Comparative Analysis of Latest Rates: Florida Public Utilities PSC-09-0229-PAA-GU 04/13/2009	Comparative Analysis of Latest Rates: Florida City Gas PSC-09-0835-PAA-GU 12/31/2009	Comparative Analysis of Latest Rates: FL Chesapeake Utilities PSC-08-0364-PAA-GU 06/02/2008	Peoples Gas System: 2006-2011 Current Approved	Peoples Gas System: 01/01/2012 Company Proposed
	Distribution Plant					
37402	**Land Rights**					
	Depreciation Rate	12.6	-	-	3.1	**1.3**
	Average Service Life	30	-	-	32	**75**
	Average Remaining Life	12.4	-	-	-	**58.5**
	Future Net Salvage %	-	-	-	-	**-**
	Reserve Ratio	(56.20)	-	-	-	**21.96**
	Curve Type	NA	-	-	-	**SQ**
37500	**Structures & Improvements**					
	Depreciation Rate	3.2	2.3	2.8	2.8	**2.5**
	Average Service Life	40	40	-	40	**40**
	Average Remaining Life	15.1	26.5	32.0	28.0	**26.8**
	Future Net Salvage %	-	0	(15)	-	**-**
	Reserve Ratio	51.40	38.00	-	21.90	**32.90**
	Curve Type	S4	R3	-	R3	**R3**
37600	**Mains Steel**					
	Depreciation Rate	2.8	3.0	3.3	4.0	**4.2**
	Average Service Life	45	40	-	40	**40**
	Average Remaining Life	23.2	21.6	27.0	25.0	**25.4**
	Future Net Salvage %	(20)	(20)	(30)	(50)	**(60)**
	Reserve Ratio	53.90	54.86	-	50.90	**56.05**
	Curve Type	S3	S3	-	R3	**R3**
37602	**Mains Plastic**					
	Depreciation Rate	2.4	3.0	3.3	2.9	**3.1**
	Average Service Life	45	40	-	40	**40**
	Average Remaining Life	37.5	29.3	36.0	31.0	**29.6**
	Future Net Salvage %	(10)	(20)	(30)	(15)	**(25)**
	Reserve Ratio	18.30	32.97	-	24.00	**31.40**
	Curve Type	S3	S3	-	R3	**R3**
37800	**Meas & Reg Station Eqp Gen**					
	Depreciation Rate	5.1	-	3.5	3.3	**3.4**
	Average Service Life	27	-	-	31	**31**
	Average Remaining Life	15.5	-	23.0	24.0	**24.9**
	Future Net Salvage %	(10)	-	(5)	(5)	**(5)**
	Reserve Ratio	31.00	-	-	25.00	**20.74**
	Curve Type	R3	-	-	R1	**R1**
37900	**Meas & Reg Station Eqp City**					
	Depreciation Rate	4.2	3.3	3.6	3.4	**3.4**
	Average Service Life	27	30	-	31	**31**
	Average Remaining Life	18.1	18.3	24.0	24.0	**25.0**
	Future Net Salvage %	0	0	(5)	(5)	**(5)**
	Reserve Ratio	24.20	39.60	-	24.40	**20.28**
	Curve Type	R3	S3	-	R1	**R1**
38000	**Services Steel**					
	Depreciation Rate	19.1	5.0	7.2	8.0	**6.6**
	Average Service Life	36	34	-	32	**32**
	Average Remaining Life	8.6	12.5	18.1	12.8	**13.6**
	Future Net Salvage %	(150)	(80)	(80)	(90)	**(100)**
	Reserve Ratio	86.10	117.13	-	87.50	**110.83**
	Curve Type	S2	S4	-	R3	**R3**
38002	**Services Plastic**					
	Depreciation Rate	3.6	3.8	3.6	5.1	**5.0**
	Average Service Life	36	34	-	32	**32**
	Average Remaining Life	27.5	23.5	30.0	23.0	**21.3**
	Future Net Salvage %	(25)	(26)	(25)	(50)	**(55)**
	Reserve Ratio	25.90	37.25	-	32.10	**49.92**
	Curve Type	S3	S4	-	R3	**R3**

PEOPLES GAS SYSTEM
Comparative Analysis
2011 Depreciation Rate Review

Account Number	Account Title	Comparative Analysis of Latest Rates: Florida Public Utilities PSC-09-0229-PAA-GU 04/13/2009	Comparative Analysis of Latest Rates: Florida City Gas PSC-09-0835-PAA-GU 12/31/2009	Comparative Analysis of Latest Rates: FL Chesapeake Utilities PSC-08-0364-PAA-GU 06/02/2008	Peoples Gas System: 2006-2011 Current Approved	Peoples Gas System: 01/01/2012 Company Proposed
38100	**Meters**					
	Depreciation Rate	3.4	4.5	3.9	6.6	**5.9**
	Average Service Life	30	25	-	16	**16**
	Average Remaining Life	18.1	15.7	14.9	11.2	**11.1**
	Future Net Salvage %	0	0	-	3	**5**
	Reserve Ratio	39.00	29.20	-	22.60	**29.16**
	Curve Type	R3	S3	-	L1	**L1**
38200	**Meter Installations**					
	Depreciation Rate	3.0	4.5	3.8	5.0	**4.5**
	Average Service Life	36	34	-	27	**27**
	Average Remaining Life	26.3	18.5	26.0	17.4	**16.5**
	Future Net Salvage %	(5)	(27)	(20)	(20)	**(20)**
	Reserve Ratio	26.50	43.08	-	32.80	**46.54**
	Curve Type	S2	S3	-	R4	**R4**
38300	**House Regulators**					
	Depreciation Rate	3.4	5.1	3.2	3.5	**3.6**
	Average Service Life	30	25	-	28	**28**
	Average Remaining Life	18.2	10.7	21.0	17.3	**17.1**
	Future Net Salvage %	0	0	-	-	**-**
	Reserve Ratio	38.30	45.45	-	38.60	**38.98**
	Curve Type	R4	S3	-	R2	**R2**
38400	**House Regulator Installs**					
	Depreciation Rate	3.3	3.2	-	5.1	**4.5**
	Average Service Life	36	34	-	27	**27**
	Average Remaining Life	22.6	16.7	-	18.0	**16.6**
	Future Net Salvage %	(5)	1	-	(20)	**(20)**
	Reserve Ratio	30.00	46.15	-	28.40	**46.03**
	Curve Type	S3	S3	-	R4	**R4**
38500	**Meas & Reg Station Eqp Ind**					
	Depreciation Rate	8.2	3.3	4.3	3.4	**3.1**
	Average Service Life	26	30	-	32	**32**
	Average Remaining Life	11.8	17.3	22.0	20.0	**15.7**
	Future Net Salvage %	0	0	(5)	(3)	**-**
	Reserve Ratio	3.20	42.24	-	34.40	**50.91**
	Curve Type	R3	R3	-	R4	**R4**
38600	**Other Property Cust Premise**					
	Depreciation Rate	-	-	-	10.0	**6.7**
	Average Service Life	-	-	-	10	**15**
	Average Remaining Life	-	-	-	10.0	**15.0**
	Future Net Salvage %	-	-	-	-	**-**
	Reserve Ratio	-	-	-	-	**-**
	Curve Type	-	-	-	R1	**R1**
38700	**Other Equipment**					
	Depreciation Rate	4.6	3.7	2.3	5.7	**6.3**
	Average Service Life	25	30	-	16	**16**
	Average Remaining Life	18.2	14.5	9.5	9.1	**9.9**
	Future Net Salvage %	0	0	-	-	**-**
	Reserve Ratio	15.80	45.80	-	47.70	**38.01**
	Curve Type	S2	S5	-	S2	**S2**

PEOPLES GAS SYSTEM
Comparative Analysis
2011 Depreciation Rate Review

Account Number	Account Title	Comparative Analysis of Latest Rates: Florida Public Utilities PSC-09-0229-PAA-GU 04/13/2009	Comparative Analysis of Latest Rates: Florida City Gas PSC-09-0835-PAA-GU 12/31/2009	Comparative Analysis of Latest Rates: FL Chesapeake Utilities PSC-08-0364-PAA-GU 06/02/2008	Peoples Gas System: 2006-2011 Current Approved	Peoples Gas System: 01/01/2012 Company Proposed
	Transportation Equipment					
39201	**Vehicles up to 1/2 Tons**					
	Depreciation Rate	21.0	6.4	11.6	10.6	**11.2**
	Average Service Life	8	12	-	8	**8**
	Average Remaining Life	3.7	5.9	2.9	4.0	**4.8**
	Future Net Salvage %	10	13	15	10	**10**
	Reserve Ratio	12.10	48.93	-	47.40	**36.36**
	Curve Type	S2	L3	-	S1	**S1**
39202	**Vehicles from 1/2 - 1 Tons**					
	Depreciation Rate	8.5	-	11.3	14.8	**12.7**
	Average Service Life	11	-	-	7	**7**
	Average Remaining Life	7.2	-	5.0	3.9	**3.3**
	Future Net Salvage %	10	-	-	10	**10**
	Reserve Ratio	28.80	-	-	32.20	**48.06**
	Curve Type	S2	-	-	S1	**S1**
39203	**Airplane**					
	Depreciation Rate	-	-	-	1.9	**1.7**
	Average Service Life	-	-	-	15	**15**
	Average Remaining Life	-	-	-	10.5	**15.0**
	Future Net Salvage %	-	-	-	75	**75**
	Reserve Ratio	-	-	-	5.50	**-**
	Curve Type	-	-	-	S4	**S4**
39204	**Trailers & Other**					
	Depreciation Rate	5.0	-	-	4.1	**4.0**
	Average Service Life	20	-	-	20	**20**
	Average Remaining Life	8.7	-	-	8.5	**7.1**
	Future Net Salvage %	0	-	-	14	**20**
	Reserve Ratio	56.50	-	-	14.00	**51.49**
	Curve Type	S5	-	-	S3	**S3**
39205	**Vehicles over 1 Ton**					
	Depreciation Rate	-	-	-	9.9	**7.4**
	Average Service Life	-	-	-	12	**12**
	Average Remaining Life	-	-	-	3.7	**4.7**
	Future Net Salvage %	-	-	-	10	**10**
	Reserve Ratio	-	-	-	53.20	**55.12**
	Curve Type	-	-	-	S4	**S4**
	General Plant					
30100	**Organization Costs**					
	Depreciation Rate	-	-	-	-	**-**
	Average Service Life	-	-	-	-	**-**
	Average Remaining Life	-	-	-	Not Depreciable	**Not Depreciable**
	Future Net Salvage %	-	-	-	-	**-**
	Reserve Ratio	-	-	-	-	**-**
	Curve Type	-	-	-	-	**0**
30200	**Franchise & Consents**					
	Depreciation Rate	-	-	-	4.0	**4.0**
	Average Service Life	-	-	-	-	**-**
	Average Remaining Life	-	-	-	25 year Amortizable	**25 year Amortizab**
	Future Net Salvage %	-	-	-	-	**-**
	Reserve Ratio	-	-	-	-	**-**
	Curve Type	-	-	-	-	**0**

PEOPLES GAS SYSTEM
Comparative Analysis
2011 Depreciation Rate Review

Account Number	Account Title	Comparative Analysis of Latest Rates			Peoples Gas System	
		Florida Public Utilities PSC-09-0229-PAA-GU 04/13/2009	Florida City Gas PSC-09-0835-PAA-GU 12/31/2009	FL Chesapeake Utilities PSC-08-0364-PAA-GU 06/02/2008	2006-2011 Current Approved	01/01/2012 Company Proposed
30300	**Misc Intangible Plant**					
	Depreciation Rate	-	-	-	4.0	**4.0**
	Average Service Life	-	-	-	-	**-**
	Average Remaining Life	-	-	-	25 year Amortizable	**25 year Amortizab**
	Future Net Salvage %	-	-	-	-	**-**
	Reserve Ratio	-	-	-	-	**-**
	Curve Type	-	-	-	-	**0**
30301	**Custom Intangible Plant**					
	Depreciation Rate	-	-	-	6.7	**6.7**
	Average Service Life	-	-	-	-	**-**
	Average Remaining Life	-	-	-	15 year Amortizable	**15 year Amortizab**
	Future Net Salvage %	-	-	-	-	**-**
	Reserve Ratio	-	-	-	-	**-**
	Curve Type	-	-	-	-	**0**
39000	**Structures & Improvements**					
	Depreciation Rate	2.7	3.5	2.3	2.9	**2.5**
	Average Service Life	40	40	-	40	**40**
	Average Remaining Life	29.6	23.7	29.0	29.0	**35.8**
	Future Net Salvage %	0	0	5	-	**-**
	Reserve Ratio	20.70	16.77	-	17.10	**10.61**
	Curve Type	R3	R3	-	R3	**R3**
39100	**Office Furniture**					
	Depreciation Rate	4.8	6.5	4.9	7.6	**6.7**
	Average Service Life	21	19	-	15	**15**
	Average Remaining Life	15.4	4.3	9.5	8.7	**12.4**
	Future Net Salvage %	0	0	3	-	**-**
	Reserve Ratio	26.10	71.96	-	33.60	**17.43**
	Curve Type	S2	S2	-	R1	**R1**
39101	**Computer Equipment**					
	Depreciation Rate	10.1	7.3	10.2	7.2	**12.5**
	Average Service Life	10	10	-	8	**8**
	Average Remaining Life	5.4	7.9	3.2	3.1	**3.1**
	Future Net Salvage %	0	0	-	-	**-**
	Reserve Ratio	45.40	42.27	-	77.70	**61.18**
	Curve Type	S4	R4	-	S2	**S2**
39102	**Office Equipment**					
	Depreciation Rate	7.5	10.2	7.3	7.0	**6.7**
	Average Service Life	14	12	-	15	**15**
	Average Remaining Life	8.4	9.2	7.9	8.1	**7.8**
	Future Net Salvage %	0	0	-	-	**-**
	Reserve Ratio	37.40	6.43	-	43.70	**47.70**
	Curve Type	S2	S2	-	R1	**R1**
39300	**Stores Equipment**					
	Depreciation Rate	6.5	4.8	5.6	1.8	**4.0**
	Average Service Life	26	25	-	25	**25**
	Average Remaining Life	2.2	13.0	1.8	2.4	**2.5**
	Future Net Salvage %	0	0	-	-	**-**
	Reserve Ratio	85.70	38.01	-	95.60	**89.97**
	Curve Type	S5	S4	0	S4	**S4**
39400	**Tools, Shop & Garage Equip**					
	Depreciation Rate	6.7	7.4	3.5	6.0	**6.6**
	Average Service Life	15	15	-	15	**15**
	Average Remaining Life	7.6	6.2	7.6	6.4	**7.8**
	Future Net Salvage %	0	0	-	-	**-**
	Reserve Ratio	49.10	54.05	-	61.70	**48.19**
	Curve Type	S3	S2	-	S1	**S1**

PEOPLES GAS SYSTEM
Comparative Analysis
2011 Depreciation Rate Review

Account Number	Account Title	Comparative Analysis of Latest Rates			Peoples Gas System	
		Florida Public Utilities PSC-09-0229-PAA-GU 04/13/2009	Florida City Gas PSC-09-0835-PAA-GU 12/31/2009	FL Chesapeake Utilities PSC-08-0364-PAA-GU 06/02/2008	2006-2011 Current Approved	01/01/2012 Company Proposed
39500	**Laboratory Equipment**					
	Depreciation Rate	NA	42.5	-	5.2	**5.0**
	Average Service Life	20	25	-	20	**20**
	Average Remaining Life	0	5.9	-	11.7	**8.3**
	Future Net Salvage %	0	0	-	-	**-**
	Reserve Ratio	NA	(150.94)	-	39.00	**58.54**
	Curve Type	R3	S4	-	S1	**S1**
39600	**Power Operated Equipment**					
	Depreciation Rate	7.6	-	6.0	5.2	**6.4**
	Average Service Life	15	-	-	15	**15**
	Average Remaining Life	7.5	-	8.0	4.1	**5.8**
	Future Net Salvage %	5	-	-	5	**5**
	Reserve Ratio	38.20	-	-	73.60	**57.96**
	Curve Type	S2	-	-	S4	**S4**
39700	**Communication Equipment**					
	Depreciation Rate	10.5	10.2	7.6	11.4	**8.4**
	Average Service Life	13	12	-	12	**12**
	Average Remaining Life	8.5	1.8	10.5	5.8	**5.0**
	Future Net Salvage %	0	0	-	-	**-**
	Reserve Ratio	10.30	81.62	-	34.20	**58.06**
	Curve Type	S1	R2	-	S3	**S3**
39800	**Miscellaneous Equipment**					
	Depreciation Rate	6.4	5.8	6.7	4.3	**5.9**
	Average Service Life	15	15	-	17	**17**
	Average Remaining Life	12.3	10.6	8.6	9.8	**7.1**
	Future Net Salvage %	10	0	-	-	**-**
	Reserve Ratio	11.40	38.48	-	57.70	**58.19**
	Curve Type	R2	S3	-	R2	**R2**

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402. Land Rights

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 75.0 YRS CURVE: IOWA SQ O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	5000.	0.006667	33.	4967.
2010	1.50	37790.	0.020000	756.	37034.
2009	2.50	211255.	0.033333	7042.	204213.
2008	3.50	54867.	0.046667	2560.	52307.
2007	4.50	0.	0.060000	0.	0.
2006	5.50	964831.	0.073333	70754.	894077.
2005	6.50	46539.	0.086667	4033.	42506.
2004	7.50	109829.	0.100000	10983.	98846.
2003	8.50	0.	0.113333	0.	0.
2002	9.50	62803.	0.126667	7955.	54848.
2001	10.50	0.	0.140000	0.	0.
2000	11.50	16248.	0.153333	2491.	13757.
1999	12.50	122560.	0.166667	20427.	102133.
1998	13.50	0.	0.180000	0.	0.
1997	14.50	0.	0.193333	0.	0.
1996	15.50	227583.	0.206667	47034.	180549.
1995	16.50	0.	0.220000	0.	0.
1994	17.50	6612.	0.233333	1543.	5069.
1993	18.50	12038.	0.246667	2969.	9069.
1992	19.50	0.	0.260000	0.	0.
1991	20.50	12085.	0.273333	3303.	8782.
1990	21.50	0.	0.286667	0.	0.
1989	22.50	0.	0.300000	0.	0.
1988	23.50	0.	0.313333	0.	0.
1987	24.50	0.	0.326667	0.	0.
1986	25.50	0.	0.340000	0.	0.
1985	26.50	0.	0.353333	0.	0.
1984	27.50	0.	0.366667	0.	0.
1983	28.50	0.	0.380000	0.	0.
1982	29.50	0.	0.393333	0.	0.
1981	30.50	54.	0.406667	22.	32.
1980	31.50	0.	0.420000	0.	0.
1979	32.50	0.	0.433333	0.	0.
1978	33.50	0.	0.446667	0.	0.
1977	34.50	0.	0.460000	0.	0.
1976	35.50	0.	0.473333	0.	0.
1975	36.50	10955.	0.486667	5331.	5624.
1974	37.50	14130.	0.500000	7065.	7065.
1973	38.50	15102.	0.513333	7752.	7350.
1972	39.50	124758.	0.526667	65706.	59052.
1971	40.50	98905.	0.540000	53409.	45496.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402. Land Rights

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 75.0 YRS CURVE: IOWA SQ O.C. SALVAGE %: 0.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
	1970	41.50	116665.	0.553333	64555.	52110.
	1969	42.50	127678.	0.566667	72351.	55327.
	1968	43.50	76841.	0.580000	44568.	32273.
	1967	44.50	27129.	0.593333	16097.	11032.
	1966	45.50	10892.	0.606667	6608.	4284.
	1965	46.50	35292.	0.620000	21881.	13411.
	1964	47.50	8772.	0.633333	5556.	3216.
	1963	48.50	8083.	0.646667	5227.	2856.
	1962	49.50	1234.	0.660000	814.	420.
	1961	50.50	1079.	0.673333	727.	352.
	1960	51.50	8760.	0.686667	6015.	2745.
SUBTOTAL :				0.219521	565567.	2010802.
NET SALVAGE:	0.0%				0.	0.
TOTAL :			2576369.	0.219521	565567.	2010802.

WEIGHTED AGE: 16.5 YEARS
REMAINING LIFE: 58.5 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402. Land Rights

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 75.0 YRS CURVE: IOWA SQ O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	5000.	0.013333	67.
2010	1.50 - 2.50	37790.	0.013333	504.
2009	2.50 - 3.50	211255.	0.013333	2817.
2008	3.50 - 4.50	54867.	0.013333	732.
2007	4.50 - 5.50	0.	0.013333	0.
2006	5.50 - 6.50	964831.	0.013333	12864.
2005	6.50 - 7.50	46539.	0.013333	621.
2004	7.50 - 8.50	109829.	0.013333	1464.
2003	8.50 - 9.50	0.	0.013333	0.
2002	9.50 - 10.50	62803.	0.013333	837.
2001	10.50 - 11.50	0.	0.013333	0.
2000	11.50 - 12.50	16248.	0.013333	217.
1999	12.50 - 13.50	122560.	0.013333	1634.
1998	13.50 - 14.50	0.	0.013333	0.
1997	14.50 - 15.50	0.	0.013333	0.
1996	15.50 - 16.50	227583.	0.013333	3034.
1995	16.50 - 17.50	0.	0.013333	0.
1994	17.50 - 18.50	6612.	0.013333	88.
1993	18.50 - 19.50	12038.	0.013333	161.
1992	19.50 - 20.50	0.	0.013333	0.
1991	20.50 - 21.50	12085.	0.013333	161.
1990	21.50 - 22.50	0.	0.013333	0.
1989	22.50 - 23.50	0.	0.013333	0.
1988	23.50 - 24.50	0.	0.013333	0.
1987	24.50 - 25.50	0.	0.013333	0.
1986	25.50 - 26.50	0.	0.013333	0.
1985	26.50 - 27.50	0.	0.013333	0.
1984	27.50 - 28.50	0.	0.013333	0.
1983	28.50 - 29.50	0.	0.013333	0.
1982	29.50 - 30.50	0.	0.013333	0.
1981	30.50 - 31.50	54.	0.013333	1.
1980	31.50 - 32.50	0.	0.013333	0.
1979	32.50 - 33.50	0.	0.013333	0.
1978	33.50 - 34.50	0.	0.013333	0.
1977	34.50 - 35.50	0.	0.013333	0.
1976	35.50 - 36.50	0.	0.013333	0.
1975	36.50 - 37.50	10955.	0.013333	146.
1974	37.50 - 38.50	14130.	0.013333	188.
1973	38.50 - 39.50	15102.	0.013333	201.
1972	39.50 - 40.50	124758.	0.013333	1663.
1971	40.50 - 41.50	98905.	0.013333	1319.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402. Land Rights

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 75.0 YRS CURVE: IOWA SQ O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	116665.	0.013333	1556.
1969	42.50 - 43.50	127678.	0.013333	1702.
1968	43.50 - 44.50	76841.	0.013333	1025.
1967	44.50 - 45.50	27129.	0.013333	362.
1966	45.50 - 46.50	10892.	0.013333	145.
1965	46.50 - 47.50	35292.	0.013333	471.
1964	47.50 - 48.50	8772.	0.013333	117.
1963	48.50 - 49.50	8083.	0.013333	108.
1962	49.50 - 50.50	1234.	0.013333	16.
1961	50.50 - 51.50	1079.	0.013333	14.
1960	51.50 - 52.50	8760.	0.013333	117.
SUBTOTAL :		2576369.	0.013333	34352.
NET SALVAGE: 0.0 %				0.
TOTAL :		2576369.	0.013333	34352.

MONTHLY RATE: 0.001111

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402. Land Rights

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 75.0 YRS CURVE: IOWA SQ

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	5000.	74.5	372500.
2010	1.50	37790.	73.5	2777565.
2009	2.50	211255.	72.5	15315988.
2008	3.50	54867.	71.5	3922991.
2007	4.50	0.	70.5	0.
2006	5.50	964831.	69.5	67055755.
2005	6.50	46539.	68.5	3187922.
2004	7.50	109829.	67.5	7413458.
2003	8.50	0.	66.5	0.
2002	9.50	62803.	65.5	4113597.
2001	10.50	0.	64.5	0.
2000	11.50	16248.	63.5	1031748.
1999	12.50	122560.	62.5	7660000.
1998	13.50	0.	61.5	0.
1997	14.50	0.	60.5	0.
1996	15.50	227583.	59.5	13541189.
1995	16.50	0.	58.5	0.
1994	17.50	6612.	57.5	380190.
1993	18.50	12038.	56.5	680147.
1992	19.50	0.	55.5	0.
1991	20.50	12085.	54.5	658633.
1990	21.50	0.	53.5	0.
1989	22.50	0.	52.5	0.
1988	23.50	0.	51.5	0.
1987	24.50	0.	50.5	0.
1986	25.50	0.	49.5	0.
1985	26.50	0.	48.5	0.
1984	27.50	0.	47.5	0.
1983	28.50	0.	46.5	0.
1982	29.50	0.	45.5	0.
1981	30.50	54.	44.5	2403.
1980	31.50	0.	43.5	0.
1979	32.50	0.	42.5	0.
1978	33.50	0.	41.5	0.
1977	34.50	0.	40.5	0.
1976	35.50	0.	39.5	0.
1975	36.50	10955.	38.5	421767.
1974	37.50	14130.	37.5	529875.
1973	38.50	15102.	36.5	551223.
1972	39.50	124758.	35.5	4428909.
1971	40.50	98905.	34.5	3412222.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402. Land Rights

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 75.0 YRS CURVE: IOWA SQ

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	116665.	33.5	3908277.
1969	42.50	127678.	32.5	4149535.
1968	43.50	76841.	31.5	2420491.
1967	44.50	27129.	30.5	827434.
1966	45.50	10892.	29.5	321314.
1965	46.50	35292.	28.5	1005822.
1964	47.50	8772.	27.5	241230.
1963	48.50	8083.	26.5	214199.
1962	49.50	1234.	25.5	31467.
1961	50.50	1079.	24.5	26435.
1960	51.50	8760.	23.5	205860.
TOTAL:		2576369.	58.5	150810146.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402. Land Rights

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 75.0 YEARS CURVE: IOWA SQ

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0067	100.00000	0.00000	50.00000	0.013333	0.66667	0.66667	0.006667
1.50	0.0200	100.00000	0.00000	100.00000	0.013333	1.33333	2.00000	0.020000
2.50	0.0333	100.00000	0.00000	100.00000	0.013333	1.33333	3.33333	0.033333
3.50	0.0467	100.00000	0.00000	100.00000	0.013333	1.33333	4.66667	0.046667
4.50	0.0600	100.00000	0.00000	100.00000	0.013333	1.33333	6.00000	0.060000
5.50	0.0733	100.00000	0.00000	100.00000	0.013333	1.33333	7.33333	0.073333
6.50	0.0867	100.00000	0.00000	100.00000	0.013333	1.33333	8.66667	0.086667
7.50	0.1000	100.00000	0.00000	100.00000	0.013333	1.33333	10.00000	0.100000
8.50	0.1133	100.00000	0.00000	100.00000	0.013333	1.33333	11.33333	0.113333
9.50	0.1267	100.00000	0.00000	100.00000	0.013333	1.33333	12.66667	0.126667
10.50	0.1400	100.00000	0.00000	100.00000	0.013333	1.33333	14.00000	0.140000
11.50	0.1533	100.00000	0.00000	100.00000	0.013333	1.33333	15.33333	0.153333
12.50	0.1667	100.00000	0.00000	100.00000	0.013333	1.33333	16.66667	0.166667
13.50	0.1800	100.00000	0.00000	100.00000	0.013333	1.33333	18.00000	0.180000
14.50	0.1933	100.00000	0.00000	100.00000	0.013333	1.33333	19.33333	0.193333
15.50	0.2067	100.00000	0.00000	100.00000	0.013333	1.33333	20.66667	0.206667
16.50	0.2200	100.00000	0.00000	100.00000	0.013333	1.33333	22.00000	0.220000
17.50	0.2333	100.00000	0.00000	100.00000	0.013333	1.33333	23.33333	0.233333
18.50	0.2467	100.00000	0.00000	100.00000	0.013333	1.33333	24.66667	0.246667
19.50	0.2600	100.00000	0.00000	100.00000	0.013333	1.33333	26.00000	0.260000
20.50	0.2733	100.00000	0.00000	100.00000	0.013333	1.33333	27.33333	0.273333
21.50	0.2867	100.00000	0.00000	100.00000	0.013333	1.33333	28.66667	0.286667
22.50	0.3000	100.00000	0.00000	100.00000	0.013333	1.33333	30.00000	0.300000
23.50	0.3133	100.00000	0.00000	100.00000	0.013333	1.33333	31.33333	0.313333
24.50	0.3267	100.00000	0.00000	100.00000	0.013333	1.33333	32.66667	0.326667
25.50	0.3400	100.00000	0.00000	100.00000	0.013333	1.33333	34.00000	0.340000
26.50	0.3533	100.00000	0.00000	100.00000	0.013333	1.33333	35.33333	0.353333
27.50	0.3667	100.00000	0.00000	100.00000	0.013333	1.33333	36.66667	0.366667
28.50	0.3800	100.00000	0.00000	100.00000	0.013333	1.33333	38.00000	0.380000
29.50	0.3933	100.00000	0.00000	100.00000	0.013333	1.33333	39.33333	0.393333
30.50	0.4067	100.00000	0.00000	100.00000	0.013333	1.33333	40.66667	0.406667
31.50	0.4200	100.00000	0.00000	100.00000	0.013333	1.33333	42.00000	0.420000
32.50	0.4333	100.00000	0.00000	100.00000	0.013333	1.33333	43.33333	0.433333
33.50	0.4467	100.00000	0.00000	100.00000	0.013333	1.33333	44.66667	0.446667
34.50	0.4600	100.00000	0.00000	100.00000	0.013333	1.33333	46.00000	0.460000
35.50	0.4733	100.00000	0.00000	100.00000	0.013333	1.33333	47.33333	0.473333
36.50	0.4867	100.00000	0.00000	100.00000	0.013333	1.33333	48.66667	0.486667
37.50	0.5000	100.00000	0.00000	100.00000	0.013333	1.33333	50.00000	0.500000
38.50	0.5133	100.00000	0.00000	100.00000	0.013333	1.33333	51.33333	0.513333

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402. Land Rights

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 75.0 YEARS CURVE: IOWA SQ

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	0.5267	100.00000	0.00000	100.00000	0.013333	1.33333	52.66667	0.526667
40.50	0.5400	100.00000	0.00000	100.00000	0.013333	1.33333	54.00000	0.540000
41.50	0.5533	100.00000	0.00000	100.00000	0.013333	1.33333	55.33333	0.553333
42.50	0.5667	100.00000	0.00000	100.00000	0.013333	1.33333	56.66667	0.566667
43.50	0.5800	100.00000	0.00000	100.00000	0.013333	1.33333	58.00000	0.580000
44.50	0.5933	100.00000	0.00000	100.00000	0.013333	1.33333	59.33333	0.593333
45.50	0.6067	100.00000	0.00000	100.00000	0.013333	1.33333	60.66667	0.606667
46.50	0.6200	100.00000	0.00000	100.00000	0.013333	1.33333	62.00000	0.620000
47.50	0.6333	100.00000	0.00000	100.00000	0.013333	1.33333	63.33333	0.633333
48.50	0.6467	100.00000	0.00000	100.00000	0.013333	1.33333	64.66667	0.646667
49.50	0.6600	100.00000	0.00000	100.00000	0.013333	1.33333	66.00000	0.660000
50.50	0.6733	100.00000	0.00000	100.00000	0.013333	1.33333	67.33333	0.673333
51.50	0.6867	100.00000	0.00000	100.00000	0.013333	1.33333	68.66667	0.686667
52.50	0.7000	100.00000	0.00000	100.00000	0.013333	1.33333	70.00000	0.700000
53.50	0.7133	100.00000	0.00000	100.00000	0.013333	1.33333	71.33333	0.713333
54.50	0.7267	100.00000	0.00000	100.00000	0.013333	1.33333	72.66667	0.726667
55.50	0.7400	100.00000	0.00000	100.00000	0.013333	1.33333	74.00000	0.740000
56.50	0.7533	100.00000	0.00000	100.00000	0.013333	1.33333	75.33333	0.753333
57.50	0.7667	100.00000	0.00000	100.00000	0.013333	1.33333	76.66667	0.766667
58.50	0.7800	100.00000	0.00000	100.00000	0.013333	1.33333	78.00000	0.780000
59.50	0.7933	100.00000	0.00000	100.00000	0.013333	1.33333	79.33333	0.793333
60.50	0.8067	100.00000	0.00000	100.00000	0.013333	1.33333	80.66667	0.806667
61.50	0.8200	100.00000	0.00000	100.00000	0.013333	1.33333	82.00000	0.820000
62.50	0.8333	100.00000	0.00000	100.00000	0.013333	1.33333	83.33333	0.833333
63.50	0.8467	100.00000	0.00000	100.00000	0.013333	1.33333	84.66667	0.846667
64.50	0.8600	100.00000	0.00000	100.00000	0.013333	1.33333	86.00000	0.860000
65.50	0.8733	100.00000	0.00000	100.00000	0.013333	1.33333	87.33333	0.873333
66.50	0.8867	100.00000	0.00000	100.00000	0.013333	1.33333	88.66667	0.886667
67.50	0.9000	100.00000	0.00000	100.00000	0.013333	1.33333	90.00000	0.900000
68.50	0.9133	100.00000	0.00000	100.00000	0.013333	1.33333	91.33333	0.913333
69.50	0.9267	100.00000	0.00000	100.00000	0.013333	1.33333	92.66667	0.926667
70.50	0.9400	100.00000	0.00000	100.00000	0.013333	1.33333	94.00000	0.940000
71.50	0.9533	100.00000	0.00000	100.00000	0.013333	1.33333	95.33333	0.953333
72.50	0.9667	100.00000	0.00000	100.00000	0.013333	1.33333	96.66667	0.966667
73.50	0.9800	100.00000	0.00000	100.00000	0.013333	1.33333	98.00000	0.980000
74.50	0.9933	100.00000	0.00000	100.00000	0.013333	1.33333	99.33333	0.993333
75.50	1.0067	0.00000	100.00000	50.00000	0.013333	0.66667	0.00000	1.000000
		7500.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37402 Land Rights

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS						
		2011	2010	2009	2008	2007	2006	2005
2011	5000.	0.	0.	0.	0.	0.	0.	0.
2010	37790.	0.	0.	0.	0.	0.	0.	0.
2009	211255.	0.	0.	0.	0.	0.	0.	0.
2008	54867.	0.	0.	0.	0.	0.	0.	0.
2007	0.	0.	0.	0.	0.	0.	0.	0.
2006	964831.	0.	0.	0.	0.	0.	0.	0.
2005	46539.	0.	0.	0.	0.	0.	0.	0.
2004	109829.	0.	0.	0.	0.	0.	0.	0.
2003	0.	0.	0.	0.	0.	0.	0.	0.
2002	62803.	0.	0.	0.	0.	0.	0.	0.
2001	0.	0.	0.	0.	0.	0.	0.	0.
2000	16248.	0.	0.	0.	0.	0.	0.	0.
1999	122560.	0.	0.	0.	0.	0.	0.	0.
1998	0.	0.	0.	0.	0.	0.	0.	0.
1997	0.	0.	0.	0.	0.	0.	0.	0.
1996	227583.	0.	0.	0.	0.	0.	0.	0.
1995	0.	0.	0.	0.	0.	0.	0.	0.
1994	6612.	0.	0.	0.	0.	0.	0.	0.
1993	12038.	0.	0.	0.	0.	0.	0.	0.
1992	0.	0.	0.	0.	0.	0.	0.	0.
1991	12085.	0.	0.	0.	0.	0.	0.	0.
1990	0.	0.	0.	0.	0.	0.	0.	0.
1989	0.	0.	0.	0.	0.	0.	0.	0.
1988	0.	0.	0.	0.	0.	0.	0.	0.
1987	0.	0.	0.	0.	0.	0.	0.	0.
1986	0.	0.	0.	0.	0.	0.	0.	0.
1985	0.	0.	0.	0.	0.	0.	0.	0.
1984	0.	0.	0.	0.	0.	0.	0.	0.
1983	0.	0.	0.	0.	0.	0.	0.	0.
1982	0.	0.	0.	0.	0.	0.	0.	0.
1981	54.	0.	0.	0.	0.	0.	0.	0.
1980	0.	0.	0.	0.	0.	0.	0.	0.
1979	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.
1975	10955.	0.	0.	0.	0.	0.	0.	0.
1974	14130.	552.	0.	0.	0.	0.	0.	0.
1973	15102.	0.	0.	0.	0.	0.	0.	0.
1972	124758.	0.	0.	0.	0.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37402 Land Rights

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS						
		2011	2010	2009	2008	2007	2006	2005
1971	98905.	0.	0.	0.	0.	0.	0.	0.
1970	116665.	0.	0.	0.	0.	0.	0.	0.
1969	127678.	0.	0.	0.	0.	0.	0.	0.
1968	76841.	0.	0.	0.	0.	0.	0.	0.
1967	27129.	0.	0.	0.	0.	0.	0.	0.
1966	10892.	0.	0.	0.	0.	0.	0.	0.
1965	35292.	0.	0.	0.	0.	0.	0.	0.
1964	8772.	0.	0.	0.	0.	0.	0.	0.
1963	8083.	0.	0.	0.	0.	0.	0.	0.
1962	1234.	0.	0.	0.	0.	0.	0.	0.
1961	1079.	0.	0.	0.	0.	0.	0.	0.
1960	8760.	0.	0.	0.	0.	0.	0.	4756.
TOTAL	2576369.	552.	0.	0.	0.	0.	0.	4756.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37402 Land Rights

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 2005 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	1320282.	0.	0.00000000	1.00000000	1.00000000
0.5	1425111.	0.	0.00000000	1.00000000	1.00000000
1.5	1387321.	0.	0.00000000	1.00000000	1.00000000
2.5	1238869.	0.	0.00000000	1.00000000	1.00000000
3.5	1184003.	0.	0.00000000	1.00000000	1.00000000
4.5	1200250.	0.	0.00000000	1.00000000	1.00000000
5.5	357979.	0.	0.00000000	1.00000000	1.00000000
6.5	311440.	0.	0.00000000	1.00000000	1.00000000
7.5	201612.	0.	0.00000000	1.00000000	1.00000000
8.5	429194.	0.	0.00000000	1.00000000	1.00000000
9.5	366392.	0.	0.00000000	1.00000000	1.00000000
10.5	373003.	0.	0.00000000	1.00000000	1.00000000
11.5	368793.	0.	0.00000000	1.00000000	1.00000000
12.5	246234.	0.	0.00000000	1.00000000	1.00000000
13.5	258319.	0.	0.00000000	1.00000000	1.00000000
14.5	258318.	0.	0.00000000	1.00000000	1.00000000
15.5	30736.	0.	0.00000000	1.00000000	1.00000000
16.5	30735.	0.	0.00000000	1.00000000	1.00000000
17.5	24123.	0.	0.00000000	1.00000000	1.00000000
18.5	12086.	0.	0.00000000	1.00000000	1.00000000
19.5	12085.	0.	0.00000000	1.00000000	1.00000000
20.5	1.	0.	0.00000000	1.00000000	1.00000000
21.5	1.	0.	0.00000000	1.00000000	1.00000000
22.5	1.	0.	0.00000000	1.00000000	1.00000000
23.5	55.	0.	0.00000000	1.00000000	1.00000000
24.5	55.	0.	0.00000000	1.00000000	1.00000000
25.5	55.	0.	0.00000000	1.00000000	1.00000000
26.5	55.	0.	0.00000000	1.00000000	1.00000000
27.5	55.	0.	0.00000000	1.00000000	1.00000000
28.5	55.	0.	0.00000000	1.00000000	1.00000000
29.5	11009.	0.	0.00000000	1.00000000	1.00000000
30.5	25638.	0.	0.00000000	1.00000000	1.00000000
31.5	40740.	0.	0.00000000	1.00000000	1.00000000
32.5	165498.	0.	0.00000000	1.00000000	1.00000000
33.5	264403.	0.	0.00000000	1.00000000	1.00000000
34.5	381068.	0.	0.00000000	1.00000000	1.00000000
35.5	508745.	0.	0.00000000	1.00000000	1.00000000
36.5	574631.	552.	0.00096062	0.99903938	1.00000000
37.5	587078.	0.	0.00000000	1.00000000	0.99903938
38.5	582868.	0.	0.00000000	1.00000000	0.99903938

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37402 Land Rights

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 2005 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	493402.	0.	0.00000000	1.00000000	0.99903938
40.5	403269.	0.	0.00000000	1.00000000	0.99903938
41.5	294687.	0.	0.00000000	1.00000000	0.99903938
42.5	168243.	0.	0.00000000	1.00000000	0.99903938
43.5	92481.	0.	0.00000000	1.00000000	0.99903938
44.5	78868.	4756.	0.06030329	0.93969671	0.99903938
45.5	63220.	0.	0.00000000	1.00000000	0.93879402
46.5	27928.	0.	0.00000000	1.00000000	0.93879402
47.5	19156.	0.	0.00000000	1.00000000	0.93879402
48.5	11073.	0.	0.00000000	1.00000000	0.93879402
49.5	9839.	0.	0.00000000	1.00000000	0.93879402
50.5	8760.	0.	0.00000000	1.00000000	0.93879402
TOTAL		5308.			50.62507919

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	1320282.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	1425111.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	0.25	0.00246115
1.5	1387321.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	0.74	0.00738238
2.5	1238869.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	1.23	0.01230362
3.5	1184003.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	1.72	0.01722486
4.5	1200250.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	2.21	0.02214610
5.5	357979.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	2.71	0.02706734
6.5	311440.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	3.20	0.03198858
7.5	201612.	0.	7.	0.00000000	0.00003225	1.00000000	1.00000000	3.69	0.03690982
8.5	429194.	0.	31.	0.00000000	0.00007192	1.00000000	0.99996775	4.18	0.04180007
9.5	366392.	0.	41.	0.00000000	0.00011160	1.00000000	0.99989582	4.68	0.04665257
10.5	373003.	0.	56.	0.00000000	0.00015127	1.00000000	0.99978424	5.17	0.05146768
11.5	368793.	0.	70.	0.00000000	0.00019094	1.00000000	0.99963301	5.66	0.05624580
12.5	246234.	0.	57.	0.00000000	0.00023061	1.00000000	0.99944214	6.15	0.06098728
13.5	258319.	0.	70.	0.00000000	0.00027028	1.00000000	0.99921166	6.64	0.06569246
14.5	258318.	0.	80.	0.00000000	0.00030995	1.00000000	0.99894160	7.14	0.07036175
15.5	30736.	0.	11.	0.00000000	0.00034962	1.00000000	0.99863198	7.63	0.07499555
16.5	30735.	0.	12.	0.00000000	0.00038929	1.00000000	0.99828285	8.12	0.07959412
17.5	24123.	0.	10.	0.00000000	0.00042896	1.00000000	0.99789423	8.61	0.08415784
18.5	12086.	0.	6.	0.00000000	0.00046863	1.00000000	0.99746617	9.10	0.08868711
19.5	12085.	0.	6.	0.00000000	0.00050830	1.00000000	0.99699873	9.60	0.09318224
20.5	1.	0.	0.	0.00000000	0.00054797	1.00000000	0.99649196	10.09	0.09764354
21.5	1.	0.	0.	0.00000000	0.00058764	1.00000000	0.99594592	10.58	0.10207139
22.5	1.	0.	0.	0.00000000	0.00062731	1.00000000	0.99536066	11.07	0.10646608
23.5	55.	0.	0.	0.00000000	0.00066698	1.00000000	0.99473626	11.56	0.11082800
24.5	55.	0.	0.	0.00000000	0.00070665	1.00000000	0.99407280	12.06	0.11515742
25.5	55.	0.	0.	0.00000000	0.00074632	1.00000000	0.99337034	12.55	0.11945472
26.5	55.	0.	0.	0.00000000	0.00078599	1.00000000	0.99262896	13.04	0.12372017
27.5	55.	0.	0.	0.00000000	0.00082566	1.00000000	0.99184877	13.53	0.12795406
28.5	55.	0.	0.	0.00000000	0.00086533	1.00000000	0.99102984	14.03	0.13215674
29.5	11009.	0.	10.	0.00000000	0.00090500	1.00000000	0.99017227	14.52	0.13632848
30.5	25638.	0.	24.	0.00000000	0.00094467	1.00000000	0.98927617	15.01	0.14046963
31.5	40740.	0.	40.	0.00000000	0.00098434	1.00000000	0.98834163	15.50	0.14458044

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	165498.	0.	169.	0.00000000	0.00102401	1.00000000	0.98736876	15.99	0.14866125
33.5	264403.	0.	281.	0.00000000	0.00106368	1.00000000	0.98635769	16.49	0.15271232
34.5	381068.	0.	420.	0.00000000	0.00110335	1.00000000	0.98530852	16.98	0.15673398
35.5	508745.	0.	582.	0.00000000	0.00114302	1.00000000	0.98422138	17.47	0.16072648
36.5	574631.	552.	680.	0.00096062	0.00118269	1.00000000	0.98309639	17.96	0.16469014
37.5	587078.	0.	718.	0.00000000	0.00122236	0.99903938	0.98193369	18.45	0.16862519
38.5	582868.	0.	736.	0.00000000	0.00126203	0.99903938	0.98073341	18.95	0.17253196
39.5	493402.	0.	642.	0.00000000	0.00130170	0.99903938	0.97949570	19.44	0.17641067
40.5	403269.	0.	541.	0.00000000	0.00134137	0.99903938	0.97822068	19.93	0.18026163
41.5	294687.	0.	407.	0.00000000	0.00138104	0.99903938	0.97690853	20.42	0.18408515
42.5	168243.	0.	239.	0.00000000	0.00142071	0.99903938	0.97555937	20.92	0.18788145
43.5	92481.	0.	135.	0.00000000	0.00146038	0.99903938	0.97417338	21.41	0.19165074
44.5	78868.	4756.	118.	0.06030329	0.00150005	0.99903938	0.97275072	21.90	0.19539332
45.5	63220.	0.	97.	0.00000000	0.00153972	0.93879402	0.97129154	22.39	0.19910947
46.5	27928.	0.	44.	0.00000000	0.00157939	0.93879402	0.96979602	22.88	0.20279949
47.5	19156.	0.	31.	0.00000000	0.00161906	0.93879402	0.96826433	23.38	0.20646357
48.5	11073.	0.	18.	0.00000000	0.00165873	0.93879402	0.96669665	23.87	0.21010191
49.5	9839.	0.	17.	0.00000000	0.00169840	0.93879402	0.96509316	24.36	0.21371480
50.5	8760.	0.	15.	0.00000000	0.00173807	0.93879402	0.96345404	24.85	0.21730250
TOTAL (EXCEPT AGE 0)		5308.	6422.						

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 50.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
51.5					0.00177774		0.96177948	25.34	0.22086527
52.5					0.00181742		0.96006968	25.84	0.22440331
53.5					0.00185709		0.95832484	26.33	0.22791687
54.5					0.00189676		0.95654515	26.82	0.23140621
55.5					0.00193643		0.95473081	27.31	0.23487151
56.5					0.00197610		0.95288205	27.81	0.23831302
57.5					0.00201577		0.95099906	28.30	0.24173098
58.5					0.00205544		0.94908207	28.79	0.24512563
59.5					0.00209511		0.94713129	29.28	0.24849714
60.5					0.00213478		0.94514695	29.77	0.25184575
61.5					0.00217445		0.94312927	30.27	0.25517168
62.5					0.00221412		0.94107849	30.76	0.25847517
63.5					0.00225379		0.93899483	31.25	0.26175644
64.5					0.00229346		0.93687853	31.74	0.26501564
65.5					0.00233313		0.93472984	32.23	0.26825298
66.5					0.00237280		0.93254900	32.73	0.27146868
67.5					0.00241247		0.93033625	33.22	0.27466304
68.5					0.00245214		0.92809184	33.71	0.27783619
69.5					0.00249181		0.92581603	34.20	0.28098824
70.5					0.00253148		0.92350907	34.69	0.28411949
71.5					0.00257115		0.92117123	35.19	0.28723013
72.5					0.00261082		0.91880276	35.68	0.29032036
73.5					0.00265049		0.91640393	36.17	0.29339037
74.5					0.00269016		0.91397501	36.66	0.29644028
75.5					0.00272983		0.91151627	37.16	0.29947034
76.5					0.00276950		0.90902799	37.65	0.30248074
77.5					0.00280917		0.90651043	38.14	0.30547166
78.5					0.00284884		0.90396389	38.63	0.30844328
79.5					0.00288851		0.90138864	39.12	0.31139577
80.5					0.00292818		0.89878497	39.62	0.31432934
81.5					0.00296785		0.89615316	40.11	0.31724416
82.5					0.00300752		0.89349351	40.60	0.32014039
83.5					0.00304719		0.89080631	41.09	0.32301820

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
				FITTED RANGE AGE 0.5 TO 50.5					
84.5					0.00308686		0.88809185	41.58	0.32587777
85.5					0.00312653		0.88535044	42.08	0.32871926
86.5					0.00316620		0.88258236	42.57	0.33154287
87.5					0.00320587		0.87978792	43.06	0.33434874
88.5					0.00324554		0.87696744	43.55	0.33713705
89.5					0.00328521		0.87412120	44.05	0.33990795
90.5					0.00332488		0.87124952	44.54	0.34266162
91.5					0.00336455		0.86835272	45.03	0.34539818
92.5					0.00340422		0.86543110	45.52	0.34811786
93.5					0.00344389		0.86248498	46.01	0.35082078
94.5					0.00348357		0.85951467	46.51	0.35350711
95.5					0.00352324		0.85652050	47.00	0.35617696
96.5					0.00356291		0.85350277	47.49	0.35883055
97.5					0.00360258		0.85046182	47.98	0.36146798
98.5					0.00364225		0.84739797	48.47	0.36408945
99.5					0.00368192		0.84431154	48.97	0.36669507
100.5					0.00372159		0.84120285	49.46	0.36928503
101.5					0.00376126		0.83807224	49.95	0.37185942
102.5					0.00380093		0.83492004	50.44	0.37441844
103.5					0.00384060		0.83174657	50.93	0.37696222
104.5					0.00388027		0.82855217	51.43	0.37949090
105.5					0.00391994		0.82533716	51.92	0.38200461
106.5					0.00395961		0.82210189	52.41	0.38450351
107.5					0.00399928		0.81884669	52.90	0.38698774
108.5					0.00403895		0.81557189	53.40	0.38945741
109.5					0.00407862		0.81227784	53.89	0.39191270
110.5					0.00411829		0.80896487	54.38	0.39435371
111.5					0.00415796		0.80563332	54.87	0.39678060
112.5					0.00419763		0.80228353	55.36	0.39919348
113.5					0.00423730		0.79891584	55.86	0.40159250
114.5					0.00427697		0.79553059	56.35	0.40397776
115.5					0.00431664		0.79212813	56.84	0.40634946
116.5					0.00435631		0.78870880	57.33	0.40870769

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
117.5					0.00439598		0.78527294	57.82	0.41105259
118.5					0.00443565		0.78182090	58.32	0.41338425
119.5					0.00447532		0.77835301	58.81	0.41570285
120.5					0.00451499		0.77486963	59.30	0.41800846
121.5					0.00455466		0.77137110	59.79	0.42030127
122.5					0.00459433		0.76785777	60.29	0.42258135
123.5					0.00463400		0.76432998	60.78	0.42484886
124.5					0.00467367		0.76078807	61.27	0.42710388
125.5					0.00471334		0.75723240	61.76	0.42934658
126.5					0.00475301		0.75366330	62.25	0.43157705
127.5					0.00479268		0.75008113	62.75	0.43379541
128.5					0.00483235		0.74648623	63.24	0.43600181
129.5					0.00487202		0.74287894	63.73	0.43819630
130.5					0.00491169		0.73925962	64.22	0.44037908
131.5					0.00495136		0.73562860	64.71	0.44255020
132.5					0.00499103		0.73198624	65.21	0.44470980
133.5					0.00503070		0.72833287	65.70	0.44685801
134.5					0.00507037		0.72466884	66.19	0.44899492
135.5					0.00511004		0.72099450	66.68	0.45112067
136.5					0.00514971		0.71731019	67.17	0.45323534
137.5					0.00518939		0.71361624	67.67	0.45533904
138.5					0.00522906		0.70991301	68.16	0.45743191
139.5					0.00526873		0.70620084	68.65	0.45951407
140.5					0.00530840		0.70248006	69.14	0.46158558
141.5					0.00534807		0.69875102	69.64	0.46364655
142.5					0.00538774		0.69501405	70.13	0.46569716
143.5					0.00542741		0.69126950	70.62	0.46773746
144.5					0.00546708		0.68751770	71.11	0.46976755
145.5					0.00550675		0.68375899	71.60	0.47178754
146.5					0.00554642		0.67999370	72.10	0.47379759
147.5					0.00558609		0.67622217	72.59	0.47579773
148.5					0.00562576		0.67244473	73.08	0.47778811
149.5					0.00566543		0.66866172	73.57	0.47976883

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
150.5					0.00570510		0.66487347	74.06	0.48173998
151.5					0.00574477		0.66108030	74.56	0.48370163
152.5					0.00578444		0.65728255	75.05	0.48565393
153.5					0.00582411		0.65348053	75.54	0.48759695
154.5					0.00586378		0.64967459	76.03	0.48953083
155.5					0.00590345		0.64586504	76.53	0.49145564
156.5					0.00594312		0.64205221	77.02	0.49337151
157.5					0.00598279		0.63823642	77.51	0.49527850
158.5					0.00602246		0.63441798	78.00	0.49717673
159.5					0.00606213		0.63059723	78.49	0.49906627
160.5					0.00610180		0.62677447	78.99	0.50094730
161.5					0.00614147		0.62295001	79.48	0.50281982
162.5					0.00618114		0.61912418	79.97	0.50468399
163.5					0.00622081		0.61529729	80.46	0.50653989
164.5					0.00626048		0.61146964	80.95	0.50838757
165.5					0.00630015		0.60764155	81.45	0.51022719
166.5					0.00633982		0.60381331	81.94	0.51205884
167.5					0.00637949		0.59998524	82.43	0.51388258
168.5					0.00641916		0.59615764	82.92	0.51569854
169.5					0.00645883		0.59233081	83.42	0.51750677
170.5					0.00649850		0.58850504	83.91	0.51930741
171.5					0.00653817		0.58468064	84.40	0.52110053
172.5					0.00657784		0.58085790	84.89	0.52288624
173.5					0.00661751		0.57703711	85.38	0.52466460
174.5					0.00665718		0.57321856	85.88	0.52643574
175.5					0.00669685		0.56940253	86.37	0.52819975
176.5					0.00673652		0.56558933	86.86	0.52995668
177.5					0.00677619		0.56177922	87.35	0.53170668
178.5					0.00681586		0.55797250	87.84	0.53344981
179.5					0.00685554		0.55416943	88.34	0.53518616
180.5					0.00689521		0.55037030	88.83	0.53691584
181.5					0.00693488		0.54657539	89.32	0.53863892
182.5					0.00697455		0.54278495	89.81	0.54035550

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
183.5					0.00701422		0.53899928	90.30	0.54206570
184.5					0.00705389		0.53521862	90.80	0.54376957
185.5					0.00709356		0.53144325	91.29	0.54546722
186.5					0.00713323		0.52767342	91.78	0.54715876
187.5					0.00717290		0.52390941	92.27	0.54884423
188.5					0.00721257		0.52015146	92.77	0.55052379
189.5					0.00725224		0.51639983	93.26	0.55219749
190.5					0.00729191		0.51265478	93.75	0.55386540
191.5					0.00733158		0.50891655	94.24	0.55552764
192.5					0.00737125		0.50518539	94.73	0.55718428
193.5					0.00741092		0.50146154	95.23	0.55883544
194.5					0.00745059		0.49774525	95.72	0.56048120
195.5					0.00749026		0.49403676	96.21	0.56212166
196.5					0.00752993		0.49033629	96.70	0.56375690
197.5					0.00756960		0.48664409	97.19	0.56538702
198.5					0.00760927		0.48296039	97.69	0.56701209
199.5					0.00764894		0.47928542	98.18	0.56863221
200.5					0.00768861		0.47561939	98.67	0.57024748
201.5					0.00772828		0.47196254	99.16	0.57185799
202.5					0.00776795		0.46831508	99.66	0.57346382
203.5					0.00780762		0.46467723	100.15	0.57506507
204.5					0.00784729		0.46104921	100.64	0.57666182
205.5					0.00788696		0.45743122	101.13	0.57825418
206.5					0.00792663		0.45382348	101.62	0.57984225
207.5					0.00796630		0.45022619	102.12	0.58142610
208.5					0.00800597		0.44663955	102.61	0.58300583
209.5					0.00804564		0.44306377	103.10	0.58458155
210.5					0.00808531		0.43949903	103.59	0.58615335
211.5					0.00812498		0.43594555	104.08	0.58772129
212.5					0.00816465		0.43240350	104.58	0.58928551
213.5					0.00820432		0.42887307	105.07	0.59084606
214.5					0.00824399		0.42535446	105.56	0.59240307
215.5					0.00828366		0.42184784	106.05	0.59395660

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
216.5					0.00832333		0.41835339	106.54	0.59550678
217.5					0.00836300		0.41487130	107.04	0.59705369
218.5					0.00840267		0.41140173	107.53	0.59859742
219.5					0.00844234		0.40794485	108.02	0.60013805
220.5					0.00848201		0.40450084	108.51	0.60167571
221.5					0.00852169		0.40106986	109.01	0.60321048
222.5					0.00856136		0.39765207	109.50	0.60474249
223.5					0.00860103		0.39424763	109.99	0.60627183
224.5					0.00864070		0.39085670	110.48	0.60779857
225.5					0.00868037		0.38747942	110.97	0.60932281
226.5					0.00872004		0.38411596	111.47	0.61084468
227.5					0.00875971		0.38076645	111.96	0.61236426
228.5					0.00879938		0.37743105	112.45	0.61388165
229.5					0.00883905		0.37410989	112.94	0.61539699
230.5					0.00887872		0.37080312	113.43	0.61691032
231.5					0.00891839		0.36751086	113.93	0.61842180
232.5					0.00895806		0.36423326	114.42	0.61993150
233.5					0.00899773		0.36097044	114.91	0.62143953
234.5					0.00903740		0.35772252	115.40	0.62294599
235.5					0.00907707		0.35448964	115.90	0.62445102
236.5					0.00911674		0.35127191	116.39	0.62595469
237.5					0.00915641		0.34806946	116.88	0.62745713
238.5					0.00919608		0.34488239	117.37	0.62895844
239.5					0.00923575		0.34171083	117.86	0.63045873
240.5					0.00927542		0.33855487	118.36	0.63195811
241.5					0.00931509		0.33541463	118.85	0.63345667
242.5					0.00935476		0.33229022	119.34	0.63495456
243.5					0.00939443		0.32918172	119.83	0.63645188
244.5					0.00943410		0.32608925	120.32	0.63794874
245.5					0.00947377		0.32301289	120.82	0.63944527
246.5					0.00951344		0.31995274	121.31	0.64094156
247.5					0.00955311		0.31690889	121.80	0.64243774
248.5					0.00959278		0.31388142	122.29	0.64393394

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 50.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
249.5					0.00963245		0.31087042	122.78	0.64543026
250.5					0.00967212		0.30787598	123.28	0.64692685
251.5					0.00971179		0.30489817	123.77	0.64842381
252.5					0.00975146		0.30193706	124.26	0.64992125
253.5					0.00979113		0.29899273	124.75	0.65141932
254.5					0.00983080		0.29606525	125.25	0.65291813
255.5					0.00987047		0.29315469	125.74	0.65441782
256.5					0.00991014		0.29026112	126.23	0.65591851
257.5					0.00994981		0.28738459	126.72	0.65742033
258.5					0.00998948		0.28452517	127.21	0.65892343
259.5					0.01002915		0.28168291	127.71	0.66042794
260.5					0.01006882		0.27885787	128.20	0.66193398
261.5					0.01010849		0.27605009	128.69	0.66344171
262.5					0.01014816		0.27325964	129.18	0.66495124
263.5					0.01018783		0.27048656	129.67	0.66646273
264.5					0.01022751		0.26773089	130.17	0.66797630
265.5					0.01026718		0.26499267	130.66	0.66949210
266.5					0.01030685		0.26227194	131.15	0.67101026
267.5					0.01034652		0.25956875	131.64	0.67253097
268.5					0.01038619		0.25688311	132.14	0.67405435
269.5					0.01042586		0.25421508	132.63	0.67558057
270.5					0.01046553		0.25156467	133.12	0.67710975
271.5					0.01050520		0.24893191	133.61	0.67864204
272.5					0.01054487		0.24631683	134.10	0.68017763
273.5					0.01058454		0.24371945	134.60	0.68171665
274.5					0.01062421		0.24113980	135.09	0.68325929
275.5					0.01066388		0.23857788	135.58	0.68480569
276.5					0.01070355		0.23603371	136.07	0.68635602
277.5					0.01074322		0.23350731	136.56	0.68791046
278.5					0.01078289		0.23099869	137.06	0.68946916
279.5					0.01082256		0.22850786	137.55	0.69103230
280.5					0.01086223		0.22603482	138.04	0.69260006
281.5					0.01090190		0.22357958	138.53	0.69417261

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 50.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
282.5					0.01094157		0.22114214	139.03	0.69575012
283.5					0.01098124		0.21872249	139.52	0.69733278
284.5					0.01102091		0.21632065	140.01	0.69892077
285.5					0.01106058		0.21393660	140.50	0.70051429
286.5					0.01110025		0.21157034	140.99	0.70211352
287.5					0.01113992		0.20922185	141.49	0.70371866
288.5					0.01117959		0.20689114	141.98	0.70532989
289.5					0.01121926		0.20457818	142.47	0.70694741
290.5					0.01125893		0.20228296	142.96	0.70857143
291.5					0.01129860		0.20000547	143.45	0.71020215
292.5					0.01133827		0.19774569	143.95	0.71183978
293.5					0.01137794		0.19550360	144.44	0.71348452
294.5					0.01141761		0.19327917	144.93	0.71513660
295.5					0.01145728		0.19107238	145.42	0.71679624
296.5					0.01149695		0.18888321	145.91	0.71846364
297.5					0.01153662		0.18671163	146.41	0.72013903
298.5					0.01157629		0.18455761	146.90	0.72182265
299.5					0.01161596		0.18242112	147.39	0.72351474
300.5					0.01165563		0.18030212	147.88	0.72521550
301.5					0.01169530		0.17820058	148.38	0.72692518
302.5					0.01173497		0.17611647	148.87	0.72864406
303.5					0.01177464		0.17404975	149.36	0.73037236
304.5					0.01181431		0.17200038	149.85	0.73211031
305.5					0.01185398		0.16996831	150.34	0.73385819
306.5					0.01189366		0.16795351	150.84	0.73561627
307.5					0.01193333		0.16595593	151.33	0.73738478
308.5					0.01197300		0.16397552	151.82	0.73916401
309.5					0.01201267		0.16201224	152.31	0.74095424
310.5					0.01205234		0.16006604	152.80	0.74275572
311.5					0.01209201		0.15813688	153.30	0.74456875
312.5					0.01213168		0.15622468	153.79	0.74639364
313.5					0.01217135		0.15432942	154.28	0.74823065
314.5					0.01221102		0.15245102	154.77	0.75008007

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 50.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
315.5					0.01225069		0.15058944	155.27	0.75194223
316.5					0.01229036		0.14874461	155.76	0.75381742
317.5					0.01233003		0.14691649	156.25	0.75570595
318.5					0.01236970		0.14510500	156.74	0.75760815
319.5					0.01240937		0.14331010	157.23	0.75952434
320.5					0.01244904		0.14153171	157.73	0.76145484
321.5					0.01248871		0.13976978	158.22	0.76340002
322.5					0.01252838		0.13802423	158.71	0.76536017
323.5					0.01256805		0.13629501	159.20	0.76733568
324.5					0.01260772		0.13458205	159.69	0.76932688
325.5					0.01264739		0.13288528	160.19	0.77133414
326.5					0.01268706		0.13120463	160.68	0.77335783
327.5					0.01272673		0.12954003	161.17	0.77539832
328.5					0.01276640		0.12789140	161.66	0.77745598
329.5					0.01280607		0.12625869	162.15	0.77953122
330.5					0.01284574		0.12464181	162.65	0.78162442
331.5					0.01288541		0.12304070	163.14	0.78373598
332.5					0.01292508		0.12145527	163.63	0.78586631
333.5					0.01296475		0.11988545	164.12	0.78801583
334.5					0.01300442		0.11833116	164.62	0.79018497
335.5					0.01304409		0.11679233	165.11	0.79237415
336.5					0.01308376		0.11526889	165.60	0.79458382
337.5					0.01312343		0.11376073	166.09	0.79681442
338.5					0.01316310		0.11226780	166.58	0.79906644
339.5					0.01320277		0.11079001	167.08	0.80134032
340.5					0.01324244		0.10932728	167.57	0.80363652
341.5					0.01328211		0.10787951	168.06	0.80595556
342.5					0.01332178		0.10644665	168.55	0.80829791
343.5					0.01336145		0.10502859	169.04	0.81066408
344.5					0.01340112		0.10362525	169.54	0.81305457
345.5					0.01344079		0.10223656	170.03	0.81546993
346.5					0.01348046		0.10086242	170.52	0.81791067
347.5					0.01352013		0.09950275	171.01	0.82037734

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 50.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
348.5					0.01355981		0.09815745	171.51	0.82287050
349.5					0.01359948		0.09682646	172.00	0.82539070
350.5					0.01363915		0.09550967	172.49	0.82793854
351.5					0.01367882		0.09420700	172.98	0.83051459
352.5					0.01371849		0.09291836	173.47	0.83311944
353.5					0.01375816		0.09164366	173.97	0.83575372
354.5					0.01379783		0.09038281	174.46	0.83841803
355.5					0.01383750		0.08913573	174.95	0.84111302
356.5					0.01387717		0.08790231	175.44	0.84383933
357.5					0.01391684		0.08668248	175.93	0.84659764
358.5					0.01395651		0.08547613	176.43	0.84938860
359.5					0.01399618		0.08428318	176.92	0.85221291
360.5					0.01403585		0.08310354	177.41	0.85507126
361.5					0.01407552		0.08193711	177.90	0.85796438
362.5					0.01411519		0.08078380	178.39	0.86089298
363.5					0.01415486		0.07964352	178.89	0.86385781
364.5					0.01419453		0.07851618	179.38	0.86685964
365.5					0.01423420		0.07740168	179.87	0.86989923
366.5					0.01427387		0.07629993	180.36	0.87297738
367.5					0.01431354		0.07521084	180.86	0.87609490
368.5					0.01435321		0.07413430	181.35	0.87925259
369.5					0.01439288		0.07307024	181.84	0.88245132
370.5					0.01443255		0.07201855	182.33	0.88569192
371.5					0.01447222		0.07097913	182.82	0.88897527
372.5					0.01451189		0.06995191	183.32	0.89230228
373.5					0.01455156		0.06893677	183.81	0.89567384
374.5					0.01459123		0.06793364	184.30	0.89909089
375.5					0.01463090		0.06694240	184.79	0.90255437
376.5					0.01467057		0.06596297	185.28	0.90606527
377.5					0.01471024		0.06499526	185.78	0.90962455
378.5					0.01474991		0.06403916	186.27	0.91323324
379.5					0.01478958		0.06309459	186.76	0.91689235
380.5					0.01482925		0.06216145	187.25	0.92060295

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 1 AVG LIFE 203.200900 FIT INDEX 0.000626 VARIANCE 0.228982

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 50.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
381.5					0.01486892		0.06123964	187.75	0.92436611
382.5					0.01490859		0.06032907	188.24	0.92818292
383.5					0.01494826		0.05942965	188.73	0.93205450
384.5					0.01498793		0.05854128	189.22	0.93598200
385.5					0.01502760		0.05766387	189.71	0.93996659
386.5					0.01506727		0.05679732	190.21	0.94400944
387.5					0.01510694		0.05594154	190.70	0.94811180
388.5					0.01514661		0.05509643	191.19	0.95227488
389.5					0.01518628		0.05426191	191.68	0.95649997
390.5					0.01522595		0.05343787	192.17	0.96078836
391.5					0.01526563		0.05262423	192.67	0.96514138
392.5					0.01530530		0.05182089	193.16	0.96956038
393.5					0.01534497		0.05102775	193.65	0.97404673
394.5					0.01538464		0.05024473	194.14	0.97860186
395.5					0.01542431		0.04947174	194.64	0.98322720
396.5					0.01546398		0.04870867	195.13	0.98792422
397.5					0.01550365		0.04795544	195.62	0.99269444
398.5							0.04721196	196.11	0.99753938

EQUIVALENT H CURVE IS 1.87

EQUIVALENT L CURVE IS 1.50

EQUIVALENT R CURVE IS 1.00

EQUIVALENT S CURVE IS 0.00

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 2 AVG LIFE 90.417710 FIT INDEX 0.000621 VARIANCE 0.072412

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	1320282.	0.	478.	0.00000000	0.00036213	1.00000000	1.00000000	0.00	0.00000000
0.5	1425111.	0.	875.	0.00000000	0.00061394	1.00000000	0.99963787	0.55	0.00516907
1.5	1387321.	0.	559.	0.00000000	0.00040273	1.00000000	0.99902416	1.66	0.01562115
2.5	1238869.	0.	253.	0.00000000	0.00020411	1.00000000	0.99862182	2.76	0.02628654
3.5	1184003.	0.	21.	0.00000000	0.00001807	1.00000000	0.99841799	3.87	0.03714863
4.5	1200250.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	4.98	0.04819114
5.5	357979.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	6.08	0.05925090
6.5	311440.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	7.19	0.07031066
7.5	201612.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	8.29	0.08137041
8.5	429194.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	9.40	0.09243017
9.5	366392.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	10.51	0.10348993
10.5	373003.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	11.61	0.11454968
11.5	368793.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	12.72	0.12560944
12.5	246234.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	13.82	0.13666920
13.5	258319.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	14.93	0.14772895
14.5	258318.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	16.04	0.15878871
15.5	30736.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	17.14	0.16984847
16.5	30735.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	18.25	0.18090822
17.5	24123.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	19.35	0.19196798
18.5	12086.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	20.46	0.20302774
19.5	12085.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	21.57	0.21408750
20.5	1.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	22.67	0.22514725
21.5	1.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	23.78	0.23620701
22.5	1.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	24.88	0.24726677
23.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	25.99	0.25832652
24.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	27.10	0.26938628
25.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	28.20	0.28044604
26.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	29.31	0.29150579
27.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	30.41	0.30256559
28.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	31.52	0.31362539
29.5	11009.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	32.63	0.32468519
30.5	25638.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	33.73	0.33574499
31.5	40740.	0.	0.	0.00000000	0.00000000	1.00000000	0.99839994	34.84	0.34680479

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 2 AVG LIFE 90.417710 FIT INDEX 0.000621 VARIANCE 0.072412

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 50.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	165498.	0.	16.	0.00000000	0.00009565	1.00000000	0.99839994	35.94	0.35786459
33.5	264403.	0.	76.	0.00000000	0.00028704	1.00000000	0.99830444	37.05	0.36886349
34.5	381068.	0.	187.	0.00000000	0.00049101	1.00000000	0.99801789	38.16	0.37974366
35.5	508745.	0.	360.	0.00000000	0.00070756	1.00000000	0.99752785	39.26	0.39050144
36.5	574631.	552.	538.	0.00096062	0.00093670	1.00000000	0.99682204	40.37	0.40113358
37.5	587078.	0.	692.	0.00000000	0.00117841	0.99903938	0.99588832	41.47	0.41163706
38.5	582868.	0.	835.	0.00000000	0.00143271	0.99903938	0.99471475	42.58	0.42200921
39.5	493402.	0.	839.	0.00000000	0.00169958	0.99903938	0.99328962	43.69	0.43224766
40.5	403269.	0.	798.	0.00000000	0.00197904	0.99903938	0.99160144	44.79	0.44235028
41.5	294687.	0.	669.	0.00000000	0.00227108	0.99903938	0.98963902	45.90	0.45231521
42.5	168243.	0.	433.	0.00000000	0.00257570	0.99903938	0.98739148	47.00	0.46214092
43.5	92481.	0.	268.	0.00000000	0.00289290	0.99903938	0.98484826	48.11	0.47182605
44.5	78868.	4756.	254.	0.06030329	0.00322268	0.99903938	0.98199919	49.22	0.48136948
45.5	63220.	0.	225.	0.00000000	0.00356504	0.93879402	0.97883453	50.32	0.49077035
46.5	27928.	0.	109.	0.00000000	0.00391998	0.93879402	0.97534494	51.43	0.50002801
47.5	19156.	0.	82.	0.00000000	0.00428751	0.93879402	0.97152161	52.53	0.50914197
48.5	11073.	0.	52.	0.00000000	0.00466761	0.93879402	0.96735620	53.64	0.51811196
49.5	9839.	0.	50.	0.00000000	0.00506030	0.93879402	0.96284096	54.75	0.52693788
50.5	8760.	0.	48.	0.00000000	0.00546556	0.93879402	0.95796870	55.85	0.53561977
TOTAL (EXCEPT AGE 0)		5308.	8239.						

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 2 AVG LIFE 90.417710 FIT INDEX 0.000621 VARIANCE 0.072412

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
51.5					0.00588341		0.95273286	56.96	0.54415791
52.5					0.00631384		0.94712754	58.06	0.55255263
53.5					0.00675685		0.94114753	59.17	0.56080449
54.5					0.00721244		0.93478833	60.28	0.56891411
55.5					0.00768061		0.92804622	61.38	0.57688229
56.5					0.00816137		0.92091826	62.49	0.58470993
57.5					0.00865470		0.91340231	63.59	0.59239798
58.5					0.00916062		0.90549708	64.70	0.59994757
59.5					0.00967911		0.89720217	65.81	0.60735988
60.5					0.01021019		0.88851805	66.91	0.61463615
61.5					0.01075385		0.87944611	68.02	0.62177774
62.5					0.01131009		0.86998868	69.12	0.62878607
63.5					0.01187891		0.86014904	70.23	0.63566263
64.5					0.01246031		0.84993141	71.34	0.64240894
65.5					0.01305429		0.83934100	72.44	0.64902658
66.5					0.01366085		0.82838400	73.55	0.65551718
67.5					0.01428000		0.81706757	74.65	0.66188245
68.5					0.01491172		0.80539985	75.76	0.66812409
69.5					0.01555603		0.79338995	76.87	0.67424381
70.5					0.01621291		0.78104795	77.97	0.68024343
71.5					0.01688238		0.76838489	79.08	0.68612472
72.5					0.01756443		0.75541272	80.18	0.69188950
73.5					0.01825906		0.74214433	81.29	0.69753961
74.5					0.01896627		0.72859347	82.40	0.70307688
75.5					0.01968606		0.71477477	83.50	0.70850317
76.5					0.02041844		0.70070367	84.61	0.71382034
77.5					0.02116339		0.68639639	85.71	0.71903026
78.5					0.02192093		0.67186992	86.82	0.72413476
79.5					0.02269104		0.65714191	87.93	0.72913571
80.5					0.02347374		0.64223067	89.03	0.73403499
81.5					0.02426902		0.62715512	90.14	0.73883443
82.5					0.02507688		0.61193468	91.24	0.74353588
83.5					0.02589732		0.59658927	92.35	0.74814115

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 2 AVG LIFE 90.417710 FIT INDEX 0.000621 VARIANCE 0.072412

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
84.5					0.02673034		0.58113921	93.46	0.75265207
85.5					0.02757594		0.56560516	94.56	0.75707046
86.5					0.02843412		0.55000807	95.67	0.76139807
87.5					0.02930489		0.53436907	96.77	0.76563670
88.5					0.03018823		0.51870945	97.88	0.76978810
89.5					0.03108416		0.50305053	98.99	0.77385399
90.5					0.03199266		0.48741363	100.09	0.77783610
91.5					0.03291375		0.47181997	101.20	0.78173612
92.5					0.03384742		0.45629060	102.30	0.78555572
93.5					0.03479367		0.44084634	103.41	0.78929655
94.5					0.03575250		0.42550768	104.51	0.79296026
95.5					0.03672391		0.41029472	105.62	0.79654844
96.5					0.03770791		0.39522709	106.73	0.80006265
97.5					0.03870448		0.38032390	107.83	0.80350448
98.5					0.03971363		0.36560367	108.94	0.80687544
99.5					0.04073537		0.35108421	110.04	0.81017704
100.5					0.04176969		0.33678267	111.15	0.81341078
101.5					0.04281659		0.32271536	112.26	0.81657809
102.5					0.04387606		0.30889779	113.36	0.81968043
103.5					0.04494812		0.29534457	114.47	0.82271921
104.5					0.04603276		0.28206939	115.57	0.82569577
105.5					0.04712999		0.26908496	116.68	0.82861150
106.5					0.04823979		0.25640298	117.79	0.83146773
107.5					0.04936217		0.24403416	118.89	0.83426578
108.5					0.05049714		0.23198810	120.00	0.83700689
109.5					0.05164468		0.22027337	121.10	0.83969236
110.5					0.05280481		0.20889742	122.21	0.84232338
111.5					0.05397752		0.19786663	123.32	0.84490119
112.5					0.05516281		0.18718628	124.42	0.84742697
113.5					0.05636068		0.17686056	125.53	0.84990187
114.5					0.05757113		0.16689258	126.63	0.85232704
115.5					0.05879416		0.15728438	127.74	0.85470357
116.5					0.06002977		0.14803698	128.85	0.85703258

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 2 AVG LIFE 90.417710 FIT INDEX 0.000621 VARIANCE 0.072412

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
117.5					0.06127797		0.13915035	129.95	0.85931511
118.5					0.06253874		0.13062350	131.06	0.86155224
119.5					0.06381210		0.12245447	132.16	0.86374497
120.5					0.06509803		0.11464040	133.27	0.86589431
121.5					0.06639655		0.10717753	134.38	0.86800124
122.5					0.06770765		0.10006131	135.48	0.87006673
123.5					0.06903133		0.09328640	136.59	0.87209173
124.5					0.07036759		0.08684671	137.69	0.87407715
125.5					0.07171643		0.08073552	138.80	0.87602390
126.5					0.07307786		0.07494546	139.91	0.87793288
127.5					0.07445186		0.06946860	141.01	0.87980495
128.5					0.07583845		0.06429654	142.12	0.88164097
129.5					0.07723761		0.05942039	143.22	0.88344178
130.5					0.07864936		0.05483090	144.33	0.88520821
131.5					0.08007369		0.05051848	145.44	0.88694105
132.5					0.08151060		0.04647328	146.54	0.88864112
133.5					0.08296008		0.04268522	147.65	0.89030919
134.5					0.08442216		0.03914405	148.75	0.89194605
135.5					0.08589681		0.03583942	149.86	0.89355245
136.5					0.08738404		0.03276093	150.97	0.89512915
137.5					0.08888385		0.02989815	152.07	0.89667692
138.5					0.09039625		0.02724069	153.18	0.89819649
139.5					0.09192122		0.02477823	154.28	0.89968862
140.5					0.09345878		0.02250058	155.39	0.90115404
141.5					0.09500892		0.02039771	156.50	0.90259352
142.5					0.09657164		0.01845974	157.60	0.90400779
143.5					0.09814694		0.01667706	158.71	0.90539763
144.5					0.09973482		0.01504025	159.81	0.90676382
145.5					0.10133528		0.01354022	160.92	0.90810716
146.5					0.10294832		0.01216811	162.03	0.90942848
147.5					0.10457395		0.01091543	163.13	0.91072863
148.5					0.10621215		0.00977396	164.24	0.91200851
149.5					0.10786294		0.00873585	165.34	0.91326907

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 2 AVG LIFE 90.417710 FIT INDEX 0.000621 VARIANCE 0.072412

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
150.5					0.10952630		0.00779357	166.45	0.91451132
151.5					0.11120225		0.00693997	167.56	0.91573634
152.5					0.11289078		0.00616823	168.66	0.91694532
153.5					0.11459189		0.00547189	169.77	0.91813953
154.5					0.11630558		0.00484486	170.87	0.91932040
155.5					0.11803185		0.00428137	171.98	0.92048951
156.5					0.11977071		0.00377604	173.09	0.92164864
157.5					0.12152214		0.00332378	174.19	0.92279977
158.5					0.12328615		0.00291987	175.30	0.92394521
159.5					0.12506275		0.00255989	176.40	0.92508757
160.5					0.12685193		0.00223974	177.51	0.92622986
161.5					0.12865369		0.00195562	178.62	0.92737563
162.5					0.13046802		0.00170403	179.72	0.92852896
163.5					0.13229494		0.00148171	180.83	0.92969466
164.5					0.13413444		0.00128568	181.93	0.93087844
165.5					0.13598653		0.00111323	183.04	0.93208700
166.5					0.13785119		0.00096184	184.15	0.93332834
167.5					0.13972843		0.00082925	185.25	0.93461201
168.5					0.14161826		0.00071338	186.36	0.93594942
169.5					0.14352066		0.00061235	187.46	0.93735429
170.5					0.14543565		0.00052447	188.57	0.93884315
171.5					0.14736322		0.00044819	189.68	0.94043595
172.5					0.14930337		0.00038215	190.78	0.94215688
173.5					0.15125610		0.00032509	191.89	0.94403531
174.5					0.15322141		0.00027592	192.99	0.94610702
175.5					0.15519930		0.00023364	194.10	0.94841568
176.5					0.15718977		0.00019738	195.21	0.95101475
177.5					0.15919283		0.00016635	196.31	0.95396982
178.5					0.16120846		0.00013987	197.42	0.95736154
179.5					0.16323668		0.00011732	198.52	0.96128938
180.5					0.16527747		0.00009817	199.63	0.96587622
181.5					0.16733085		0.00008195	200.74	0.97127433
182.5					0.16939681		0.00006823	201.84	0.97767275

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 2 AVG LIFE 90.417710 FIT INDEX 0.000621 VARIANCE 0.072412

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
183.5					0.17147535		0.00005668	202.95	0.98530681
184.5							0.00004696	204.05	0.99447011

EQUIVALENT H CURVE IS 3.71

EQUIVALENT L CURVE IS 4.00

EQUIVALENT R CURVE IS 3.00

EQUIVALENT S CURVE IS 3.00

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 3 AVG LIFE 68.271570 FIT INDEX 0.000614 VARIANCE 0.031369

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	1320282.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	1425111.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	0.73	0.00732403
1.5	1387321.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	2.20	0.02197141
2.5	1238869.	0.	75.	0.00000000	0.00006014	1.00000000	1.00000000	3.66	0.03661880
3.5	1184003.	0.	212.	0.00000000	0.00017944	1.00000000	0.99993986	5.13	0.05120868
4.5	1200250.	0.	310.	0.00000000	0.00025790	1.00000000	0.99976043	6.59	0.06568709
5.5	357979.	0.	107.	0.00000000	0.00029867	1.00000000	0.99950259	8.06	0.08009539
6.5	311440.	0.	95.	0.00000000	0.00030489	1.00000000	0.99920407	9.52	0.09447016
7.5	201612.	0.	56.	0.00000000	0.00027970	1.00000000	0.99889943	10.99	0.10884359
8.5	429194.	0.	97.	0.00000000	0.00022624	1.00000000	0.99862003	12.45	0.12324367
9.5	366392.	0.	54.	0.00000000	0.00014765	1.00000000	0.99839410	13.92	0.13769429
10.5	373003.	0.	18.	0.00000000	0.00004708	1.00000000	0.99824669	15.38	0.15221541
11.5	368793.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	16.84	0.16682321
12.5	246234.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	18.31	0.18147059
13.5	258319.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	19.77	0.19611798
14.5	258318.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	21.24	0.21076536
15.5	30736.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	22.70	0.22541274
16.5	30735.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	24.17	0.24006012
17.5	24123.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	25.63	0.25470751
18.5	12086.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	27.10	0.26935489
19.5	12085.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	28.56	0.28400227
20.5	1.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	30.03	0.29864965
21.5	1.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	31.49	0.31329704
22.5	1.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	32.96	0.32794442
23.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	34.42	0.34259180
24.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	35.89	0.35723918
25.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	37.35	0.37188657
26.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	38.82	0.38653395
27.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	40.28	0.40118133
28.5	55.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	41.75	0.41582871
29.5	11009.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	43.21	0.43047610
30.5	25638.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	44.67	0.44512348
31.5	40740.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	46.14	0.45977086

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 3 AVG LIFE 68.271570 FIT INDEX 0.000614 VARIANCE 0.031369

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	165498.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	47.60	0.47441824
33.5	264403.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	49.07	0.48906562
34.5	381068.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	50.53	0.50371301
35.5	508745.	0.	0.	0.00000000	0.00000000	1.00000000	0.99819969	52.00	0.51836039
36.5	574631.	552.	1.	0.00096062	0.00000091	1.00000000	0.99819969	53.46	0.53300777
37.5	587078.	0.	290.	0.00000000	0.00049359	0.99903938	0.99819879	54.93	0.54765474
38.5	582868.	0.	613.	0.00000000	0.00105221	0.99903938	0.99770609	56.39	0.56208237
39.5	493402.	0.	829.	0.00000000	0.00167991	0.99903938	0.99665628	57.86	0.57627619
40.5	403269.	0.	960.	0.00000000	0.00237983	0.99903938	0.99498199	59.32	0.59022288
41.5	294687.	0.	930.	0.00000000	0.00315509	0.99903938	0.99261411	60.79	0.60391021
42.5	168243.	0.	674.	0.00000000	0.00400886	0.99903938	0.98948231	62.25	0.61732713
43.5	92481.	0.	457.	0.00000000	0.00494426	0.99903938	0.98551562	63.72	0.63046375
44.5	78868.	4756.	470.	0.06030329	0.00596444	0.99903938	0.98064298	65.18	0.64331136
45.5	63220.	0.	447.	0.00000000	0.00707253	0.93879402	0.97479399	66.65	0.65586247
46.5	27928.	0.	231.	0.00000000	0.00827168	0.93879402	0.96789974	68.11	0.66811077
47.5	19156.	0.	183.	0.00000000	0.00956502	0.93879402	0.95989358	69.58	0.68005106
48.5	11073.	0.	121.	0.00000000	0.01095570	0.93879402	0.95071218	71.04	0.69167930
49.5	9839.	0.	122.	0.00000000	0.01244686	0.93879402	0.94029646	72.50	0.70299253
50.5	8760.	0.	123.	0.00000000	0.01404164	0.93879402	0.92859271	73.97	0.71398881
TOTAL (EXCEPT AGE 0)		5308.	7476.						

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 3 AVG LIFE 68.271570 FIT INDEX 0.000614 VARIANCE 0.031369

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
				FITTED RANGE AGE 0.5 TO 50.5					
51.5					0.01574317		0.91555375	75.43	0.72466723
52.5					0.01755461		0.90114003	76.90	0.73502782
53.5					0.01947907		0.88532087	78.36	0.74507146
54.5					0.02151972		0.86807564	79.83	0.75479992
55.5					0.02367968		0.84939489	81.29	0.76421568
56.5					0.02596211		0.82928149	82.76	0.77332198
57.5					0.02837013		0.80775160	84.22	0.78212268
58.5					0.03090689		0.78483558	85.69	0.79062221
59.5					0.03357552		0.76057875	87.15	0.79882558
60.5					0.03637918		0.73504192	88.62	0.80673821
61.5					0.03932100		0.70830170	90.08	0.81436594
62.5					0.04240411		0.68045057	91.55	0.82171501
63.5					0.04563166		0.65159667	93.01	0.82879191
64.5					0.04900680		0.62186323	94.48	0.83560341
65.5					0.05253265		0.59138771	95.94	0.84215648
66.5					0.05621236		0.56032054	97.41	0.84845825
67.5					0.06004907		0.52882360	98.87	0.85451594
68.5					0.06404593		0.49706824	100.33	0.86033690
69.5					0.06820606		0.46523304	101.80	0.86592851
70.5					0.07253261		0.43350133	103.26	0.87129812
71.5					0.07702872		0.40205835	104.73	0.87645312
72.5					0.08169754		0.37108830	106.19	0.88140083
73.5					0.08654219		0.34077130	107.66	0.88614850
74.5					0.09156583		0.31128021	109.12	0.89070330
75.5					0.09677159		0.28277758	110.59	0.89507230
76.5					0.10216260		0.25541274	112.05	0.89926242
77.5					0.10774202		0.22931911	113.52	0.90328048
78.5					0.11351299		0.20461181	114.98	0.90713313
79.5					0.11947863		0.18138571	116.45	0.91082687
80.5					0.12564210		0.15971399	117.91	0.91436804
81.5					0.13200652		0.13964719	119.38	0.91776281
82.5					0.13857505		0.12121285	120.84	0.92101717
83.5					0.14535083		0.10441577	122.31	0.92413695

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EXPERIENCE BAND 2005 TO 2011 DEGREE 3 AVG LIFE 68.271570 FIT INDEX 0.000614 VARIANCE 0.031369

FITTED RANGE AGE 0.5 TO 50.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
84.5					0.15233698		0.08923886	123.77	0.92712780
85.5					0.15953666		0.07564448	125.24	0.92999519
86.5					0.16695300		0.06357641	126.70	0.93274445
87.5					0.17458915		0.05296214	128.16	0.93538075
88.5					0.18244824		0.04371552	129.63	0.93790910
89.5					0.19053341		0.03573970	131.09	0.94033441
90.5					0.19884780		0.02893010	132.56	0.94266148
91.5					0.20739456		0.02317741	134.02	0.94489507
92.5					0.21617682		0.01837054	135.49	0.94703993
93.5					0.22519773		0.01439926	136.95	0.94910089
94.5					0.23446042		0.01115658	138.42	0.95108300
95.5					0.24396804		0.00854080	139.88	0.95299169
96.5					0.25372372		0.00645712	141.35	0.95483303
97.5					0.26373061		0.00481879	142.81	0.95661422
98.5					0.27399184		0.00354793	144.28	0.95834422
99.5					0.28451055		0.00257583	145.74	0.96003484
100.5					0.29528989		0.00184298	147.21	0.96170253
101.5					0.30633300		0.00129876	148.67	0.96337118
102.5					0.31764301		0.00090091	150.14	0.96507701
103.5					0.32922307		0.00061474	151.60	0.96687669
104.5					0.34107632		0.00041235	153.07	0.96886140
105.5					0.35320589		0.00027171	154.53	0.97118157
106.5					0.36561492		0.00017574	155.99	0.97409095
107.5					0.37830657		0.00011149	157.46	0.97802704
108.5					0.39128396		0.00006931	158.92	0.98376021
109.5							0.00004219	160.39	0.99267631

EQUIVALENT H CURVE IS GREATER THAN 5.0

EQUIVALENT L CURVE IS 5.00

EQUIVALENT R CURVE IS 4.00

EQUIVALENT S CURVE IS 4.00

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37402 Land Rights

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = -0.26527222E-03 0.39670236E-04 (X)

$$\text{QUADRATIC} \quad YEST(I) = 0.72425467E\text{-}03 - 0.22378288E\text{-}03\,(X) + 0.62904989E\text{-}05\,(X^2)$$

$$\text{CUBIC} \quad YEST(I) = -0.43732723E\text{-}03 + 0.26049387E\text{-}03\,(X) - 0.25910548E\text{-}04\,(X^2) + 0.52336087E\text{-}06\,(X^3)$$

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37402 Land Rights

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2005	2009	175.53	0.001215	227.02	1.79	1.50	0.00	1.00
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	361.46	0.000036	110.25	4.58	4.00	3.00	4.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37402 Land Rights

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	361.46	0.000036	110.25	4.58	4.00	3.00	4.00
2006	2011	366.21	0.000029	108.82	4.90	4.00	4.00	4.00
2005	2011	203.20	0.000626	196.11	1.87	1.50	0.00	1.00

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37402 Land Rights

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2005	2009	76.84	0.001204	195.87	4.06	4.00	3.00	3.00
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37402 Land Rights

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	90.42	0.000621	204.05	3.71	4.00	3.00	3.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37402 Land Rights

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2005	2009	59.67	0.001180	153.36	5.10	5.00	4.00	5.00
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE

P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37402 Land Rights

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	68.27	0.000614	160.39	5.10	5.00	4.00	4.00

Peoples Gas System
Net Salvage Analysis
Account - 374.02 - Land Rights
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0
2006	0	(1,206)	0	16,928	0	15,722	0
2005	4,756	0	0	0	0	0	0
2004	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	4,756	**(1,206)**	**(25)**	**16,928**	**356**	**15,722**	**331**

Peoples Gas System
Net Salvage Analysis
Account - 374.02 - Land Rights
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	0	(1,206)	0	16,928	0	15,722	0
2009	4,756	(1,206)	(25)	16,928	356	15,722	331
2008	4,756	(1,206)	(25)	16,928	356	15,722	331
2007	4,756	(1,206)	(25)	16,928	356	15,722	331
2006	4,756	(1,206)	(25)	16,928	356	15,722	331
2005	4,756	0	0	0	0	0	0
2004	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	110000.	0.012309	1354.	108646.
2010	1.50	965904.	0.036860	35603.	930301.
2009	2.50	362034.	0.061327	22202.	339832.
2008	3.50	510966.	0.085691	43785.	467181.
2007	4.50	1123346.	0.109954	123517.	999829.
2006	5.50	1118140.	0.134089	149930.	968210.
2005	6.50	149082.	0.158090	23568.	125514.
2004	7.50	190681.	0.181936	34692.	155989.
2003	8.50	1324180.	0.205625	272284.	1051896.
2002	9.50	1500320.	0.229138	343781.	1156539.
2001	10.50	2390067.	0.252457	603390.	1786677.
2000	11.50	745652.	0.275574	205482.	540170.
1999	12.50	390975.	0.298473	116696.	274279.
1998	13.50	55292.	0.321139	17756.	37536.
1997	14.50	673774.	0.343560	231482.	442292.
1996	15.50	127521.	0.365733	46639.	80882.
1995	16.50	232371.	0.387635	90075.	142296.
1994	17.50	536240.	0.409260	219462.	316778.
1993	18.50	596211.	0.430603	256730.	339481.
1992	19.50	131006.	0.451649	59169.	71837.
1991	20.50	60668.	0.472390	28659.	32009.
1990	21.50	270660.	0.492819	133387.	137273.
1989	22.50	1025011.	0.512930	525759.	499252.
1988	23.50	44232.	0.532709	23563.	20669.
1987	24.50	60992.	0.552150	33677.	27315.
1986	25.50	2066086.	0.571241	1180234.	885852.
1985	26.50	109881.	0.589968	64826.	45055.
1984	27.50	228029.	0.608317	138714.	89315.
1983	28.50	43013.	0.626275	26938.	16075.
1982	29.50	1325.	0.643824	853.	472.
1981	30.50	179130.	0.660941	118394.	60736.
1980	31.50	97095.	0.677609	65792.	31303.
1979	32.50	20386.	0.693800	14144.	6242.
1978	33.50	198007.	0.709500	140486.	57521.
1977	34.50	0.	0.724683	0.	0.
1976	35.50	13542.	0.739322	10012.	3530.
1975	36.50	20477.	0.753407	15428.	5049.
1974	37.50	174847.	0.766916	134093.	40754.
1973	38.50	2077.	0.779838	1620.	457.
1972	39.50	1152.	0.792168	913.	239.
1971	40.50	1879.	0.803899	1511.	368.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: 0.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	0.	0.815035	0.	0.
1969	42.50	234.	0.825586	193.	41.
1968	43.50	5152.	0.835567	4305.	847.
1967	44.50	21241.	0.844998	17949.	3292.
1966	45.50	155894.	0.853909	133119.	22775.
1965	46.50	137127.	0.862338	118250.	18877.
1964	47.50	4205.	0.870325	3660.	545.
1963	48.50	130834.	0.877915	114861.	15973.
1962	49.50	16876.	0.885166	14938.	1938.
1961	50.50	0.	0.892138	0.	0.
1960	51.50	235.	0.898887	211.	24.
1959	52.50	73511.	0.905477	66562.	6949.
1958	53.50	0.	0.911962	0.	0.
1957	54.50	0.	0.918391	0.	0.
1956	55.50	0.	0.924791	0.	0.
1955	56.50	0.	0.931178	0.	0.
1954	57.50	0.	0.937561	0.	0.
1953	58.50	0.	0.943926	0.	0.
1952	59.50	0.	0.950240	0.	0.
1951	60.50	0.	0.956473	0.	0.
1950	61.50	0.	0.962629	0.	0.
1949	62.50	0.	0.968650	0.	0.
1948	63.50	0.	0.974664	0.	0.
1947	64.50	0.	0.980808	0.	0.
1946	65.50	0.	0.989111	0.	0.
1945	66.50	0.	1.000000	0.	0.
1944	67.50	0.	1.000000	0.	0.
1943	68.50	0.	1.000000	0.	0.
1942	69.50	0.	1.000000	0.	0.
1941	70.50	0.	1.000000	0.	0.
1940	71.50	6830.	1.000000	6830.	0.
1939	72.50	0.	1.000000	0.	0.
1938	73.50	0.	1.000000	0.	0.
1937	74.50	3993.	1.000000	3993.	0.
1936	75.50	0.	1.000000	0.	0.
1935	76.50	0.	1.000000	0.	0.
1934	77.50	0.	1.000000	0.	0.
1933	78.50	0.	1.000000	0.	0.
1932	79.50	0.	1.000000	0.	0.
1931	80.50	0.	1.000000	0.	0.
1930	81.50	0.	1.000000	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: 0.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
	1929	82.50	15276.	1.000000	15276.	0.
	1928	83.50	0.	1.000000	0.	0.
	1927	84.50	0.	1.000000	0.	0.
	1926	85.50	8070.	1.000000	8070.	0.
SUBTOTAL :				0.329042	6064814.	12366915.
NET SALVAGE:	0.0%				0.	0.
TOTAL :			18431729.	0.329042	6064814.	12366915.

WEIGHTED AGE: 14.6 YEARS
REMAINING LIFE: 26.8 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	110000.	0.025000	2750.
2010	1.50 - 2.50	965904.	0.025000	24148.
2009	2.50 - 3.50	362034.	0.025000	9051.
2008	3.50 - 4.50	510966.	0.025000	12774.
2007	4.50 - 5.50	1123346.	0.025000	28084.
2006	5.50 - 6.50	1118140.	0.025000	27954.
2005	6.50 - 7.50	149082.	0.025000	3727.
2004	7.50 - 8.50	190681.	0.025000	4767.
2003	8.50 - 9.50	1324180.	0.025000	33105.
2002	9.50 - 10.50	1500320.	0.025000	37508.
2001	10.50 - 11.50	2390067.	0.025000	59752.
2000	11.50 - 12.50	745652.	0.025000	18641.
1999	12.50 - 13.50	390975.	0.025000	9774.
1998	13.50 - 14.50	55292.	0.025000	1382.
1997	14.50 - 15.50	673774.	0.025000	16844.
1996	15.50 - 16.50	127521.	0.025000	3188.
1995	16.50 - 17.50	232371.	0.025000	5809.
1994	17.50 - 18.50	536240.	0.025000	13406.
1993	18.50 - 19.50	596211.	0.025000	14905.
1992	19.50 - 20.50	131006.	0.025000	3275.
1991	20.50 - 21.50	60668.	0.025000	1517.
1990	21.50 - 22.50	270660.	0.025000	6767.
1989	22.50 - 23.50	1025011.	0.025000	25625.
1988	23.50 - 24.50	44232.	0.025000	1106.
1987	24.50 - 25.50	60992.	0.025000	1525.
1986	25.50 - 26.50	2066086.	0.025000	51652.
1985	26.50 - 27.50	109881.	0.025000	2747.
1984	27.50 - 28.50	228029.	0.025000	5701.
1983	28.50 - 29.50	43013.	0.025000	1075.
1982	29.50 - 30.50	1325.	0.025000	33.
1981	30.50 - 31.50	179130.	0.025000	4478.
1980	31.50 - 32.50	97095.	0.025000	2427.
1979	32.50 - 33.50	20386.	0.025000	510.
1978	33.50 - 34.50	198007.	0.025000	4950.
1977	34.50 - 35.50	0.	0.025000	0.
1976	35.50 - 36.50	13542.	0.025000	339.
1975	36.50 - 37.50	20477.	0.025000	512.
1974	37.50 - 38.50	174847.	0.025000	4371.
1973	38.50 - 39.50	2077.	0.025000	52.
1972	39.50 - 40.50	1152.	0.025000	29.
1971	40.50 - 41.50	1879.	0.025000	47.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	0.	0.025000	0.
1969	42.50 - 43.50	234.	0.025000	6.
1968	43.50 - 44.50	5152.	0.025000	129.
1967	44.50 - 45.50	21241.	0.025000	531.
1966	45.50 - 46.50	155894.	0.025000	3897.
1965	46.50 - 47.50	137127.	0.025000	3428.
1964	47.50 - 48.50	4205.	0.025000	105.
1963	48.50 - 49.50	130834.	0.025000	3271.
1962	49.50 - 50.50	16876.	0.025000	422.
1961	50.50 - 51.50	0.	0.025000	0.
1960	51.50 - 52.50	235.	0.025000	6.
1959	52.50 - 53.50	73511.	0.025000	1838.
1958	53.50 - 54.50	0.	0.025000	0.
1957	54.50 - 55.50	0.	0.025000	0.
1956	55.50 - 56.50	0.	0.025000	0.
1955	56.50 - 57.50	0.	0.025000	0.
1954	57.50 - 58.50	0.	0.025000	0.
1953	58.50 - 59.50	0.	0.025000	0.
1952	59.50 - 60.50	0.	0.025000	0.
1951	60.50 - 61.50	0.	0.025000	0.
1950	61.50 - 62.50	0.	0.025000	0.
1949	62.50 - 63.50	0.	0.025000	0.
1948	63.50 - 64.50	0.	0.025000	0.
1947	64.50 - 65.50	0.	0.025000	0.
1946	65.50 - 66.50	0.	0.025000	0.
1945	66.50 - 67.50	0.	0.025000	0.
1944	67.50 - 68.50	0.	0.025000	0.
1943	68.50 - 69.50	0.	0.025000	0.
1942	69.50 - 70.50	0.	0.025000	0.
1941	70.50 - 71.50	0.	0.025000	0.
1940	71.50 - 72.50	6830.	0.025000	171.
1939	72.50 - 73.50	0.	0.025000	0.
1938	73.50 - 74.50	0.	0.025000	0.
1937	74.50 - 75.50	3993.	0.025000	100.
1936	75.50 - 76.50	0.	0.025000	0.
1935	76.50 - 77.50	0.	0.025000	0.
1934	77.50 - 78.50	0.	0.025000	0.
1933	78.50 - 79.50	0.	0.025000	0.
1932	79.50 - 80.50	0.	0.025000	0.
1931	80.50 - 81.50	0.	0.025000	0.
1930	81.50 - 82.50	0.	0.025000	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: 0.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
	1929	82.50 - 83.50	15276.	0.025000	382.
	1928	83.50 - 84.50	0.	0.025000	0.
	1927	84.50 - 85.50	0.	0.025000	0.
	1926	85.50 - 86.50	8070.	0.025000	202.
SUBTOTAL :			18431729.	0.025000	460793.
NET SALVAGE:	0.0 %				0.
TOTAL :			18431729.	0.025000	460793.

MONTHLY RATE: 0.002083

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	110000.	39.5	4345842.
2010	1.50	965904.	38.5	37212039.
2009	2.50	362034.	37.5	13593265.
2008	3.50	510966.	36.6	18687229.
2007	4.50	1123346.	35.6	39993176.
2006	5.50	1118140.	34.6	38728398.
2005	6.50	149082.	33.7	5020547.
2004	7.50	190681.	32.7	6239572.
2003	8.50	1324180.	31.8	42075843.
2002	9.50	1500320.	30.8	46261576.
2001	10.50	2390067.	29.9	71467084.
2000	11.50	745652.	29.0	21606784.
1999	12.50	390975.	28.1	10971180.
1998	13.50	55292.	27.2	1501423.
1997	14.50	673774.	26.3	17691676.
1996	15.50	127521.	25.4	3235295.
1995	16.50	232371.	24.5	5691833.
1994	17.50	536240.	23.6	12671137.
1993	18.50	596211.	22.8	13579231.
1992	19.50	131006.	21.9	2873490.
1991	20.50	60668.	21.1	1280361.
1990	21.50	270660.	20.3	5490940.
1989	22.50	1025011.	19.5	19970095.
1988	23.50	44232.	18.7	826768.
1987	24.50	60992.	17.9	1092611.
1986	25.50	2066086.	17.2	35434089.
1985	26.50	109881.	16.4	1802189.
1984	27.50	228029.	15.7	3572605.
1983	28.50	43013.	14.9	643001.
1982	29.50	1325.	14.2	18877.
1981	30.50	179130.	13.6	2429422.
1980	31.50	97095.	12.9	1252102.
1979	32.50	20386.	12.2	249688.
1978	33.50	198007.	11.6	2300844.
1977	34.50	0.	11.0	0.
1976	35.50	13542.	10.4	141204.
1975	36.50	20477.	9.9	201979.
1974	37.50	174847.	9.3	1630164.
1973	38.50	2077.	8.8	18291.
1972	39.50	1152.	8.3	9577.
1971	40.50	1879.	7.8	14739.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	0.	7.4	0.
1969	42.50	234.	7.0	1633.
1968	43.50	5152.	6.6	33886.
1967	44.50	21241.	6.2	131696.
1966	45.50	155894.	5.8	910990.
1965	46.50	137127.	5.5	755089.
1964	47.50	4205.	5.2	21811.
1963	48.50	130834.	4.9	638915.
1962	49.50	16876.	4.6	77517.
1961	50.50	0.	4.3	0.
1960	51.50	235.	4.0	950.
1959	52.50	73511.	3.8	277940.
1958	53.50	0.	3.5	0.
1957	54.50	0.	3.3	0.
1956	55.50	0.	3.0	0.
1955	56.50	0.	2.8	0.
1954	57.50	0.	2.5	0.
1953	58.50	0.	2.2	0.
1952	59.50	0.	2.0	0.
1951	60.50	0.	1.7	0.
1950	61.50	0.	1.5	0.
1949	62.50	0.	1.3	0.
1948	63.50	0.	1.0	0.
1947	64.50	0.	0.8	0.
1946	65.50	0.	0.4	0.
1945	66.50	0.	0.0	0.
1944	67.50	0.	0.0	0.
1943	68.50	0.	0.0	0.
1942	69.50	0.	0.0	0.
1941	70.50	0.	0.0	0.
1940	71.50	6830.	0.0	0.
1939	72.50	0.	0.0	0.
1938	73.50	0.	0.0	0.
1937	74.50	3993.	0.0	0.
1936	75.50	0.	0.0	0.
1935	76.50	0.	0.0	0.
1934	77.50	0.	0.0	0.
1933	78.50	0.	0.0	0.
1932	79.50	0.	0.0	0.
1931	80.50	0.	0.0	0.
1930	81.50	0.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

	I	II	III	IV	V
	YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
	1929	82.50	15276.	0.0	0.
	1928	83.50	0.	0.0	0.
	1927	84.50	0.	0.0	0.
	1926	85.50	8070.	0.0	0.
TOTAL:			18431729.	26.8	494676597.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 40.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0125	99.98075	0.01925	49.99519	0.025000	1.24988	1.23063	0.012309
1.50	0.0375	99.93475	0.04600	99.95775	0.025000	2.49894	3.68357	0.036860
2.50	0.0625	99.87875	0.05600	99.90675	0.025000	2.49767	6.12524	0.061327
3.50	0.0875	99.81025	0.06850	99.84450	0.025000	2.49611	8.55285	0.085691
4.50	0.1125	99.72875	0.08150	99.76950	0.025000	2.49424	10.96559	0.109954
5.50	0.1375	99.63050	0.09825	99.67963	0.025000	2.49199	13.35933	0.134089
6.50	0.1625	99.51400	0.11650	99.57225	0.025000	2.48931	15.73214	0.158090
7.50	0.1875	99.37575	0.13825	99.44488	0.025000	2.48612	18.08001	0.181936
8.50	0.2125	99.21425	0.16150	99.29500	0.025000	2.48238	20.40089	0.205625
9.50	0.2375	99.02600	0.18825	99.12012	0.025000	2.47800	22.69064	0.229138
10.50	0.2625	98.80700	0.21900	98.91650	0.025000	2.47291	24.94455	0.252457
11.50	0.2875	98.55450	0.25250	98.68075	0.025000	2.46702	27.15907	0.275574
12.50	0.3125	98.26450	0.29000	98.40950	0.025000	2.46024	29.32931	0.298473
13.50	0.3375	97.93275	0.33175	98.09862	0.025000	2.45247	31.45002	0.321139
14.50	0.3625	97.55525	0.37750	97.74400	0.025000	2.44360	33.51612	0.343560
15.50	0.3875	97.12875	0.42650	97.34200	0.025000	2.43355	35.52317	0.365733
16.50	0.4125	96.64725	0.48150	96.88800	0.025000	2.42220	37.46387	0.387635
17.50	0.4375	96.10650	0.54075	96.37687	0.025000	2.40942	39.33254	0.409260
18.50	0.4625	95.50250	0.60400	95.80450	0.025000	2.39511	41.12366	0.430603
19.50	0.4875	94.82925	0.67325	95.16587	0.025000	2.37915	42.82955	0.451649
20.50	0.5125	94.08150	0.74775	94.45537	0.025000	2.36138	44.44319	0.472390
21.50	0.5375	93.25400	0.82750	93.66775	0.025000	2.34169	45.95738	0.492819
22.50	0.5625	92.34125	0.91275	92.79763	0.025000	2.31994	47.36457	0.512930
23.50	0.5875	91.33650	1.00475	91.83888	0.025000	2.29597	48.65580	0.532709
24.50	0.6125	90.23350	1.10300	90.78500	0.025000	2.26963	49.82242	0.552150
25.50	0.6375	89.02525	1.20825	89.62938	0.025000	2.24073	50.85490	0.571241
26.50	0.6625	87.70350	1.32175	88.36438	0.025000	2.20911	51.74226	0.589968
27.50	0.6875	86.26025	1.44325	86.98187	0.025000	2.17455	52.47356	0.608317
28.50	0.7125	84.68750	1.57275	85.47387	0.025000	2.13685	53.03766	0.626275
29.50	0.7375	82.97600	1.71150	83.83175	0.025000	2.09579	53.42195	0.643824
30.50	0.7625	81.11550	1.86050	82.04575	0.025000	2.05114	53.61259	0.660941
31.50	0.7875	79.09725	2.01825	80.10637	0.025000	2.00266	53.59700	0.677609
32.50	0.8125	76.91100	2.18625	78.00412	0.025000	1.95010	53.36086	0.693800
33.50	0.8375	74.55025	2.36075	75.73062	0.025000	1.89327	52.89337	0.709500
34.50	0.8625	72.00750	2.54275	73.27887	0.025000	1.83197	52.18259	0.724683
35.50	0.8875	69.27650	2.73100	70.64200	0.025000	1.76605	51.21765	0.739322
36.50	0.9125	66.35800	2.91850	67.81725	0.025000	1.69543	49.99458	0.753407
37.50	0.9375	63.25300	3.10500	64.80550	0.025000	1.62014	48.50971	0.766916
38.50	0.9625	59.96950	3.28350	61.61125	0.025000	1.54028	46.76649	0.779838

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500. Structures & Improvements

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 40.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	0.9875	56.52100	3.44850	58.24525	0.025000	1.45613	44.77413	0.792168
40.50	1.0125	52.92575	3.59525	54.72337	0.025000	1.36808	42.54696	0.803899
41.50	1.0375	49.20975	3.71600	51.06775	0.025000	1.27669	40.10766	0.815035
42.50	1.0625	45.40575	3.80400	47.30775	0.025000	1.18269	37.48635	0.825586
43.50	1.0875	41.55150	3.85425	43.47862	0.025000	1.08697	34.71906	0.835567
44.50	1.1125	37.68925	3.86225	39.62037	0.025000	0.99051	31.84732	0.844998
45.50	1.1375	33.86575	3.82350	35.77750	0.025000	0.89444	28.91826	0.853909
46.50	1.1625	30.12850	3.73725	31.99713	0.025000	0.79993	25.98094	0.862338
47.50	1.1875	26.52325	3.60525	28.32588	0.025000	0.70815	23.08384	0.870325
48.50	1.2125	23.09225	3.43100	24.80775	0.025000	0.62019	20.27303	0.877915
49.50	1.2375	19.87350	3.21875	21.48287	0.025000	0.53707	17.59135	0.885166
50.50	1.2625	16.89675	2.97675	18.38512	0.025000	0.45963	15.07423	0.892138
51.50	1.2875	14.18250	2.71425	15.53963	0.025000	0.38849	12.74847	0.898887
52.50	1.3125	11.74275	2.43975	12.96263	0.025000	0.32407	10.63279	0.905477
53.50	1.3375	9.58025	2.16250	10.66150	0.025000	0.26654	8.73682	0.911962
54.50	1.3625	7.68975	1.89050	8.63500	0.025000	0.21587	7.06220	0.918391
55.50	1.3875	6.05900	1.63075	6.87437	0.025000	0.17186	5.60331	0.924791
56.50	1.4125	4.67225	1.38675	5.36563	0.025000	0.13414	4.35070	0.931178
57.50	1.4375	3.51150	1.16075	4.09188	0.025000	0.10230	3.29225	0.937561
58.50	1.4625	2.55725	0.95425	3.03437	0.025000	0.07586	2.41385	0.943926
59.50	1.4875	1.78975	0.76750	2.17350	0.025000	0.05434	1.70069	0.950240
60.50	1.5125	1.19025	0.59950	1.49000	0.025000	0.03725	1.13844	0.956473
61.50	1.5375	0.74050	0.44975	0.96538	0.025000	0.02413	0.71283	0.962629
62.50	1.5625	0.42000	0.32050	0.58025	0.025000	0.01451	0.40683	0.968650
63.50	1.5875	0.20925	0.21075	0.31463	0.025000	0.00787	0.20395	0.974664
64.50	1.6125	0.08475	0.12450	0.14700	0.025000	0.00368	0.08312	0.980808
65.50	1.6375	0.02425	0.06050	0.05450	0.025000	0.00136	0.02399	0.989111
66.50	1.6625	0.00325	0.02100	0.01375	0.025000	0.00034	0.00333	1.000000
67.50	1.6875	0.00000	0.00325	0.00162	0.025000	0.00004	0.00000	1.000000
		3999.99999	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	110000.	0.	0.	0.	0.	0.	0.	0.	0
2010	965904.	0.	0.	0.	0.	0.	0.	0.	0
2009	362034.	0.	0.	0.	0.	0.	0.	0.	0
2008	510966.	0.	0.	0.	0.	0.	0.	0.	0
2007	1123346.	0.	0.	0.	0.	0.	0.	0.	0
2006	1118140.	0.	0.	0.	0.	0.	0.	0.	0
2005	149082.	0.	0.	0.	0.	0.	0.	0.	0
2004	190681.	0.	0.	0.	0.	0.	0.	0.	0
2003	1324180.	0.	0.	0.	0.	6632.	0.	0.	0
2002	1500320.	0.	0.	0.	30311.	0.	0.	0.	0
2001	2390067.	552.	0.	0.	24799.	0.	0.	0.	0
2000	745652.	0.	0.	0.	99403.	1070.	660.	0.	69198
1999	390975.	1104.	0.	0.	2650.	0.	0.	0.	1026
1998	55292.	0.	0.	0.	36948.	3031.	0.	0.	20299
1997	673774.	0.	0.	0.	0.	0.	1377.	0.	221709
1996	127521.	1104.	0.	0.	23052.	0.	0.	0.	233121
1995	232371.	0.	0.	0.	61787.	1405.	0.	0.	11932
1994	536240.	0.	0.	0.	7284.	6685.	4301.	0.	49363
1993	596211.	0.	0.	0.	45747.	0.	0.	0.	19619
1992	131006.	0.	0.	0.	22903.	0.	18762.	0.	27177
1991	60668.	0.	0.	0.	11581.	69108.	0.	0.	82314
1990	270660.	1104.	1000.	0.	5362.	0.	0.	0.	0
1989	1025011.	0.	0.	0.	4552.	0.	6754.	0.	0
1988	44232.	0.	0.	0.	2876.	0.	4518.	0.	6092
1987	60992.	0.	0.	0.	0.	0.	2496.	0.	20136
1986	2066086.	0.	0.	0.	58815.	0.	0.	0.	19219
1985	109881.	1104.	0.	0.	79919.	0.	0.	0.	1413831
1984	228029.	0.	0.	0.	0.	0.	0.	0.	0
1983	43013.	0.	0.	0.	0.	0.	0.	0.	0
1982	1325.	0.	0.	0.	19462.	0.	2858.	0.	1475
1981	179130.	0.	0.	0.	12354.	814.	0.	0.	9743
1980	97095.	0.	0.	0.	0.	0.	0.	0.	0
1979	20386.	0.	0.	0.	0.	931.	0.	0.	18873
1978	198007.	0.	0.	0.	0.	0.	5762.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	4822
1976	13542.	0.	0.	0.	0.	0.	0.	0.	0
1975	20477.	0.	0.	0.	4530.	0.	0.	0.	0
1974	174847.	0.	0.	0.	8212.	0.	0.	0.	0
1973	2077.	0.	0.	0.	0.	0.	0.	0.	0
1972	1152.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	1879.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	234.	0.	0.	0.	0.	0.	215.	0.	0
1968	5152.	0.	0.	0.	0.	0.	0.	0.	0
1967	21241.	0.	0.	0.	0.	0.	0.	0.	0
1966	155894.	1104.	0.	0.	0.	0.	0.	0.	0
1965	137127.	0.	0.	0.	0.	0.	0.	0.	2406
1964	4205.	0.	0.	0.	0.	0.	0.	0.	0
1963	130834.	0.	0.	0.	0.	0.	0.	0.	0
1962	16876.	0.	0.	0.	0.	17979.	0.	0.	0
1961	0.	0.	0.	0.	0.	0.	0.	1152.	0
1960	235.	0.	0.	0.	2875.	0.	0.	0.	0
1959	73511.	0.	0.	0.	0.	0.	0.	0.	0
1958	0.	0.	0.	0.	0.	0.	0.	0.	0
1957	0.	0.	0.	0.	0.	0.	0.	0.	0
1956	0.	0.	0.	0.	0.	0.	0.	0.	0
1955	0.	0.	0.	0.	7645.	0.	0.	0.	0
1954	0.	0.	0.	0.	0.	0.	0.	0.	0
1953	0.	0.	0.	0.	0.	0.	0.	0.	0
1952	0.	0.	0.	0.	0.	0.	0.	0.	0
1951	0.	0.	0.	0.	0.	0.	0.	0.	0
1950	0.	0.	0.	0.	0.	0.	0.	0.	0
1949	0.	0.	0.	0.	0.	0.	0.	0.	0
1948	0.	0.	0.	0.	0.	0.	0.	0.	0
1947	0.	0.	0.	0.	0.	0.	0.	0.	0
1946	0.	0.	0.	0.	0.	0.	0.	0.	331
1945	0.	0.	0.	0.	0.	0.	0.	0.	0
1944	0.	0.	0.	0.	0.	0.	0.	0.	0
1943	0.	0.	0.	0.	0.	0.	0.	0.	0
1942	0.	0.	0.	0.	0.	0.	0.	0.	0
1941	0.	0.	0.	0.	0.	0.	0.	0.	0
1940	6830.	0.	0.	0.	0.	0.	0.	0.	0
1939	0.	0.	0.	0.	0.	0.	0.	0.	0
1938	0.	0.	0.	0.	0.	0.	0.	0.	0
1937	3993.	0.	0.	0.	0.	0.	0.	0.	0
1936	0.	0.	0.	0.	0.	0.	0.	0.	0
1935	0.	0.	0.	0.	0.	0.	0.	0.	0
1934	0.	0.	0.	0.	0.	0.	0.	0.	0
1933	0.	0.	0.	0.	0.	0.	0.	0.	0
1932	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1931	0.	0.	0.	0.	0.	0.	0.	0.	0
1930	0.	0.	0.	0.	0.	0.	0.	0.	0
1929	15276.	3852.	0.	0.	0.	0.	0.	0.	0
1928	0.	0.	0.	0.	0.	0.	0.	0.	0
1927	0.	0.	0.	0.	0.	0.	0.	0.	0
1926	8070.	2196.	0.	0.	0.	0.	0.	0.	0
TOTAL	18431729.	12120.	1000.	0.	573067.	107655.	47703.	1152.	2232686

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	110000.	0.	0.	0.	0.	0.	0.	0.	0
2010	965904.	0.	0.	0.	0.	0.	0.	0.	0
2009	362034.	0.	0.	0.	0.	0.	0.	0.	0
2008	510966.	0.	0.	0.	0.	0.	0.	0.	0
2007	1123346.	0.	0.	0.	0.	0.	0.	0.	0
2006	1118140.	0.	0.	0.	0.	0.	0.	0.	0
2005	149082.	0.	0.	0.	0.	0.	0.	0.	0
2004	190681.	0.	0.	0.	0.	0.	0.	0.	0
2003	1324180.	0.	0.	0.	0.	0.	0.	0.	0
2002	1500320.	0.	0.	0.	0.	0.	0.	0.	0
2001	2390067.	38211.	0.	0.	0.	0.	0.	0.	0
2000	745652.	0.	0.	0.	0.	0.	0.	0.	0
1999	390975.	0.	0.	1040.	1912.	0.	0.	0.	0
1998	55292.	0.	0.	0.	37064.	0.	0.	0.	0
1997	673774.	0.	4249.	0.	21416.	1728.	0.	0.	0
1996	127521.	0.	0.	0.	32234.	54218.	0.	0.	0
1995	232371.	0.	0.	306538.	28294.	5349.	13168.	0.	0
1994	536240.	0.	2503.	34339.	5776.	94799.	16990.	0.	0
1993	596211.	1515.	1195.	3148798.	1683.	9540.	10037.	86301.	28628
1992	131006.	0.	2853.	3660.	5913.	782.	6574.	0.	0
1991	60668.	890.	1183.	2451.	11398.	0.	0.	0.	0
1990	270660.	0.	0.	156961.	0.	13604.	0.	21821.	0
1989	1025011.	0.	5089.	0.	5958.	240105.	2173.	268060.	1264
1988	44232.	0.	0.	0.	11985.	711981.	0.	0.	0
1987	60992.	11760.	0.	0.	22743.	34671.	1761.	0.	0
1986	2066086.	0.	0.	13367.	23343.	0.	40665.	8042.	43768
1985	109881.	71922.	2555.	30322.	67937.	0.	130411.	0.	3132
1984	228029.	0.	0.	0.	0.	0.	0.	3000.	16395
1983	43013.	0.	0.	0.	2155.	0.	0.	2793.	0
1982	1325.	0.	0.	0.	12355.	0.	17930.	0.	0
1981	179130.	0.	4666.	0.	28463.	0.	0.	302.	0
1980	97095.	0.	0.	1935.	0.	0.	868.	21429.	0
1979	20386.	0.	3807.	0.	10390.	0.	1664.	0.	0
1978	198007.	0.	3854.	0.	0.	0.	1022.	0.	13802
1977	0.	0.	0.	0.	0.	0.	0.	443.	0
1976	13542.	0.	0.	0.	2268.	0.	0.	0.	0
1975	20477.	0.	690.	0.	15245.	0.	297.	3363.	0
1974	174847.	0.	0.	24242.	30410.	0.	848.	0.	0
1973	2077.	0.	0.	1396.	8562.	0.	5637.	0.	0
1972	1152.	0.	2892.	14632.	12174.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	1879.	0.	0.	7819.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	7584.	0.	0.	0.	0
1969	234.	0.	2547.	0.	0.	0.	0.	1085.	0
1968	5152.	0.	0.	0.	0.	0.	0.	0.	0
1967	21241.	0.	0.	0.	0.	0.	0.	0.	0
1966	155894.	0.	34210.	180191.	0.	0.	0.	0.	0
1965	137127.	0.	0.	0.	0.	0.	0.	15789.	0
1964	4205.	0.	0.	0.	0.	0.	0.	0.	0
1963	130834.	0.	0.	0.	0.	0.	0.	219.	0
1962	16876.	0.	0.	0.	0.	0.	5019.	0.	0
1961	0.	0.	0.	9.	0.	0.	0.	0.	0
1960	235.	0.	0.	0.	0.	0.	698.	0.	0
1959	73511.	0.	0.	0.	0.	0.	0.	0.	0
1958	0.	0.	0.	0.	7031.	0.	0.	0.	0
1957	0.	0.	0.	0.	0.	0.	0.	0.	0
1956	0.	0.	0.	0.	0.	0.	0.	0.	0
1955	0.	0.	0.	0.	0.	0.	0.	0.	0
1954	0.	0.	0.	0.	0.	0.	0.	0.	0
1953	0.	0.	0.	0.	0.	0.	0.	0.	0
1952	0.	0.	0.	0.	0.	0.	0.	0.	0
1951	0.	0.	0.	0.	0.	0.	0.	0.	0
1950	0.	0.	0.	0.	0.	0.	0.	0.	0
1949	0.	0.	0.	0.	0.	0.	0.	0.	0
1948	0.	0.	0.	0.	0.	0.	0.	0.	0
1947	0.	0.	0.	0.	0.	0.	0.	0.	0
1946	0.	0.	0.	0.	0.	0.	0.	0.	0
1945	0.	0.	0.	0.	0.	0.	0.	0.	0
1944	0.	0.	0.	0.	0.	0.	0.	0.	0
1943	0.	0.	0.	0.	0.	0.	0.	0.	0
1942	0.	0.	0.	0.	0.	0.	0.	0.	0
1941	0.	0.	0.	0.	0.	0.	0.	0.	0
1940	6830.	0.	0.	0.	0.	0.	0.	0.	0
1939	0.	0.	0.	6573.	0.	0.	0.	0.	0
1938	0.	0.	0.	0.	0.	0.	0.	0.	0
1937	3993.	0.	0.	4669.	0.	0.	0.	0.	0
1936	0.	0.	0.	0.	0.	0.	0.	0.	0
1935	0.	0.	0.	0.	0.	0.	0.	0.	0
1934	0.	0.	0.	0.	0.	0.	0.	0.	0
1933	0.	0.	0.	0.	0.	0.	0.	0.	0
1932	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1931	0.	0.	0.	0.	0.	0.	0.	0.	0
1930	0.	0.	0.	0.	0.	0.	0.	0.	0
1929	15276.	0.	0.	0.	0.	0.	0.	0.	0
1928	0.	0.	0.	0.	0.	0.	0.	0.	0
1927	0.	0.	0.	0.	0.	0.	0.	0.	0
1926	8070.	0.	0.	0.	0.	0.	0.	30008.	0
TOTAL	18431729.	124298.	72293.	3938942.	414293.	1166777.	255762.	462655.	106989

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	110000.	0.	0.	0.	0.	0.	0.	0.	0
2010	965904.	0.	0.	0.	0.	0.	0.	0.	0
2009	362034.	0.	0.	0.	0.	0.	0.	0.	0
2008	510966.	0.	0.	0.	0.	0.	0.	0.	0
2007	1123346.	0.	0.	0.	0.	0.	0.	0.	0
2006	1118140.	0.	0.	0.	0.	0.	0.	0.	0
2005	149082.	0.	0.	0.	0.	0.	0.	0.	0
2004	190681.	0.	0.	0.	0.	0.	0.	0.	0
2003	1324180.	0.	0.	0.	0.	0.	0.	0.	0
2002	1500320.	0.	0.	0.	0.	0.	0.	0.	0
2001	2390067.	0.	0.	0.	0.	0.	0.	0.	0
2000	745652.	0.	0.	0.	0.	0.	0.	0.	0
1999	390975.	0.	0.	0.	0.	0.	0.	0.	0
1998	55292.	0.	0.	0.	0.	0.	0.	0.	0
1997	673774.	0.	0.	0.	0.	0.	0.	0.	0
1996	127521.	0.	0.	0.	0.	0.	0.	0.	0
1995	232371.	0.	0.	0.	0.	0.	0.	0.	0
1994	536240.	0.	0.	0.	0.	0.	0.	0.	0
1993	596211.	899.	0.	394899.	0.	0.	0.	0.	0
1992	131006.	4382.	0.	0.	0.	0.	0.	0.	0
1991	60668.	9294.	0.	0.	0.	0.	0.	0.	0
1990	270660.	0.	27452.	2105.	0.	0.	0.	0.	0
1989	1025011.	0.	138640.	0.	5117.	0.	0.	0.	0
1988	44232.	5383.	5383.	2410.	0.	1978.	0.	0.	0
1987	60992.	42427.	10478.	0.	0.	0.	0.	0.	0
1986	2066086.	182344.	61687.	0.	8460.	8802.	0.	0.	0
1985	109881.	0.	41983.	3452.	0.	6952.	0.	0.	0
1984	228029.	0.	38744.	0.	0.	0.	0.	2476.	0
1983	43013.	0.	2012.	0.	2104.	0.	4405.	0.	0
1982	1325.	0.	0.	0.	0.	0.	0.	0.	0
1981	179130.	0.	8669.	0.	0.	0.	0.	0.	0
1980	97095.	0.	0.	6566.	0.	0.	3463.	0.	0
1979	20386.	0.	0.	0.	2710.	0.	16969.	0.	0
1978	198007.	0.	3900.	0.	0.	0.	0.	0.	0
1977	0.	0.	587.	0.	0.	0.	0.	0.	0
1976	13542.	0.	0.	0.	0.	0.	3443.	0.	0
1975	20477.	0.	0.	0.	0.	0.	0.	0.	0
1974	174847.	616.	6298.	0.	387.	0.	0.	0.	0
1973	2077.	0.	0.	0.	0.	0.	0.	0.	0
1972	1152.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	1879.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	234.	0.	0.	0.	0.	0.	0.	0.	0
1968	5152.	0.	0.	0.	0.	0.	0.	0.	0
1967	21241.	0.	16655.	0.	0.	0.	0.	0.	0
1966	155894.	0.	0.	0.	0.	0.	0.	0.	0
1965	137127.	0.	1950.	895.	0.	0.	5706.	0.	0
1964	4205.	0.	0.	0.	2000.	0.	0.	0.	0
1963	130834.	3939.	0.	9372.	300.	0.	4860.	1799.	800
1962	16876.	226.	0.	0.	0.	0.	0.	1080.	0
1961	0.	0.	0.	0.	0.	0.	0.	0.	0
1960	235.	0.	185.	0.	0.	0.	0.	0.	0
1959	73511.	0.	985.	0.	0.	0.	0.	0.	0
1958	0.	0.	0.	0.	0.	0.	0.	0.	0
1957	0.	0.	0.	0.	0.	0.	0.	0.	0
1956	0.	0.	0.	0.	0.	0.	0.	0.	0
1955	0.	0.	0.	0.	0.	0.	0.	0.	0
1954	0.	0.	0.	0.	2778.	0.	0.	0.	0
1953	0.	0.	0.	0.	2584.	0.	0.	0.	0
1952	0.	0.	0.	4083.	971.	0.	0.	0.	0
1951	0.	0.	0.	0.	0.	0.	0.	0.	0
1950	0.	0.	910.	0.	2871.	0.	0.	0.	0
1949	0.	0.	0.	0.	0.	0.	0.	0.	0
1948	0.	0.	0.	0.	0.	0.	0.	0.	0
1947	0.	0.	0.	2178.	1568.	0.	0.	0.	0
1946	0.	0.	0.	0.	0.	0.	0.	0.	0
1945	0.	0.	0.	0.	0.	0.	0.	0.	0
1944	0.	0.	0.	0.	0.	0.	0.	0.	0
1943	0.	0.	0.	0.	0.	0.	0.	0.	0
1942	0.	0.	0.	0.	0.	0.	0.	0.	0
1941	0.	0.	0.	0.	0.	0.	600.	0.	0
1940	6830.	0.	0.	0.	0.	0.	0.	0.	0
1939	0.	0.	0.	0.	0.	0.	0.	0.	0
1938	0.	0.	0.	0.	0.	0.	0.	0.	0
1937	3993.	0.	0.	0.	0.	0.	0.	0.	0
1936	0.	0.	0.	0.	0.	0.	0.	0.	0
1935	0.	0.	0.	0.	0.	0.	0.	0.	0
1934	0.	0.	0.	0.	0.	0.	0.	0.	0
1933	0.	0.	0.	0.	0.	0.	0.	0.	0
1932	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1931	0.	0.	0.	0.	0.	0.	0.	0.	0
1930	0.	0.	0.	0.	0.	0.	0.	0.	0
1929	15276.	0.	0.	0.	0.	0.	0.	0.	0
1928	0.	0.	0.	0.	0.	0.	0.	0.	0
1927	0.	0.	0.	0.	0.	0.	0.	0.	0
1926	8070.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	18431729.	249510.	366518.	425960.	31850.	17732.	39446.	5355.	800

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS				
		1987	1986	1985	1984	1983
2011	110000.	0.	0.	0.	0.	0.
2010	965904.	0.	0.	0.	0.	0.
2009	362034.	0.	0.	0.	0.	0.
2008	510966.	0.	0.	0.	0.	0.
2007	1123346.	0.	0.	0.	0.	0.
2006	1118140.	0.	0.	0.	0.	0.
2005	149082.	0.	0.	0.	0.	0.
2004	190681.	0.	0.	0.	0.	0.
2003	1324180.	0.	0.	0.	0.	0.
2002	1500320.	0.	0.	0.	0.	0.
2001	2390067.	0.	0.	0.	0.	0.
2000	745652.	0.	0.	0.	0.	0.
1999	390975.	0.	0.	0.	0.	0.
1998	55292.	0.	0.	0.	0.	0.
1997	673774.	0.	0.	0.	0.	0.
1996	127521.	0.	0.	0.	0.	0.
1995	232371.	0.	0.	0.	0.	0.
1994	536240.	0.	0.	0.	0.	0.
1993	596211.	0.	0.	0.	0.	0.
1992	131006.	0.	0.	0.	0.	0.
1991	60668.	0.	0.	0.	0.	0.
1990	270660.	0.	0.	0.	0.	0.
1989	1025011.	0.	0.	0.	0.	0.
1988	44232.	0.	0.	0.	0.	0.
1987	60992.	0.	0.	0.	0.	0.
1986	2066086.	0.	0.	0.	0.	0.
1985	109881.	0.	1413.	0.	0.	0.
1984	228029.	0.	0.	0.	1621.	0.
1983	43013.	0.	0.	0.	0.	0.
1982	1325.	4527.	586.	0.	29779.	0.
1981	179130.	0.	10869.	0.	13265.	0.
1980	97095.	0.	140.	0.	9147.	0.
1979	20386.	0.	2034.	0.	23042.	0.
1978	198007.	0.	10768.	0.	0.	0.
1977	0.	0.	13822.	0.	0.	0.
1976	13542.	862.	5169.	0.	0.	0.
1975	20477.	0.	17.	177.	0.	0.
1974	174847.	3510.	1780.	0.	0.	0.
1973	2077.	0.	1345.	0.	0.	0.
1972	1152.	0.	1523.	415.	11054.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS				
		1987	1986	1985	1984	1983
1971	1879.	0.	0.	0.	0.	0.
1970	0.	0.	9703.	554.	2453.	0.
1969	234.	0.	0.	0.	0.	0.
1968	5152.	0.	0.	148.	0.	0.
1967	21241.	0.	0.	0.	400.	0.
1966	155894.	0.	3800.	0.	0.	0.
1965	137127.	0.	7265.	0.	17676.	0.
1964	4205.	0.	94.	0.	2357.	0.
1963	130834.	0.	0.	0.	1930.	2453.
1962	16876.	0.	3219.	0.	0.	0.
1961	0.	0.	0.	0.	0.	0.
1960	235.	0.	362.	0.	0.	0.
1959	73511.	0.	1235.	0.	0.	0.
1958	0.	0.	10432.	0.	0.	0.
1957	0.	0.	24664.	0.	0.	0.
1956	0.	0.	5786.	0.	0.	0.
1955	0.	0.	11151.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.
1953	0.	0.	830.	6089.	0.	8662.
1952	0.	0.	0.	0.	0.	41209.
1951	0.	0.	0.	0.	0.	0.
1950	0.	0.	0.	0.	4600.	0.
1949	0.	0.	0.	0.	0.	0.
1948	0.	0.	52.	0.	3600.	0.
1947	0.	0.	0.	0.	18892.	0.
1946	0.	0.	5889.	0.	0.	0.
1945	0.	0.	0.	0.	0.	0.
1944	0.	0.	0.	0.	0.	0.
1943	0.	0.	0.	0.	0.	0.
1942	0.	0.	0.	0.	0.	0.
1941	0.	0.	20329.	0.	0.	0.
1940	6830.	0.	0.	0.	0.	0.
1939	0.	0.	0.	0.	0.	0.
1938	0.	0.	0.	0.	0.	0.
1937	3993.	0.	0.	0.	0.	0.
1936	0.	0.	0.	0.	0.	0.
1935	0.	0.	0.	0.	0.	0.
1934	0.	0.	0.	0.	0.	0.
1933	0.	0.	0.	0.	0.	0.
1932	0.	0.	0.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS				
		1987	1986	1985	1984	1983
1931	0.	0.	0.	0.	0.	0.
1930	0.	0.	2899.	0.	0.	0.
1929	15276.	0.	0.	0.	0.	0.
1928	0.	0.	645.	0.	0.	0.
1927	0.	0.	0.	0.	0.	0.
1926	8070.	0.	888.	0.	1832.	0.
TOTAL	18431729.	8899.	158709.	7383.	141648.	52324.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	26998400.	396520.	0.01468680	0.98531320	1.00000000
0.5	26582177.	3325.	0.00012508	0.99987492	0.98531320
1.5	25881223.	108721.	0.00420077	0.99579923	0.98518996
2.5	25551111.	144277.	0.00564660	0.99435340	0.98105140
3.5	24996674.	263183.	0.01052872	0.98947128	0.97551179
4.5	23847260.	329171.	0.01380330	0.98619670	0.96524090
5.5	22419623.	400633.	0.01786975	0.98213025	0.95191739
6.5	21895192.	329767.	0.01506116	0.98493884	0.93490687
7.5	21419540.	3876132.	0.18096243	0.81903757	0.92082608
8.5	16470378.	291273.	0.01768466	0.98231534	0.75419116
9.5	14697802.	425108.	0.02892324	0.97107676	0.74085355
10.5	11926469.	928497.	0.07785179	0.92214821	0.71942566
11.5	10262018.	174479.	0.01700241	0.98299759	0.66341709
12.5	9716858.	335244.	0.03450128	0.96549872	0.65213740
13.5	9330403.	59601.	0.00638783	0.99361217	0.62963783
14.5	8602328.	128709.	0.01496211	0.98503789	0.62561581
15.5	8384394.	172020.	0.02051669	0.97948331	0.61625527
16.5	8355202.	65745.	0.00786875	0.99213125	0.60361176
17.5	7942031.	128433.	0.01617130	0.98382870	0.59886209
18.5	7226043.	1468682.	0.20324844	0.79675156	0.58917771
19.5	5782861.	20249.	0.00350155	0.99649845	0.46942825
20.5	5746343.	27906.	0.00485631	0.99514369	0.46778452
21.5	5448938.	63747.	0.01169898	0.98830102	0.46551282
22.5	4364535.	93766.	0.02148362	0.97851638	0.46006680
23.5	4302268.	13047.	0.00303259	0.99696741	0.45018290
24.5	4245692.	46261.	0.01089599	0.98910401	0.44881768
25.5	2158009.	53951.	0.02500036	0.97499964	0.44392737
26.5	1999963.	74500.	0.03725069	0.96274931	0.43282902
27.5	1716230.	34675.	0.02020417	0.97979583	0.41670584
28.5	1641320.	41546.	0.02531255	0.97468745	0.40828665
29.5	1616614.	42115.	0.02605136	0.97394864	0.39795187
30.5	1441632.	52360.	0.03631995	0.96368005	0.38758468
31.5	1292177.	25817.	0.01997946	0.98002054	0.37350763
32.5	1254355.	8133.	0.00648381	0.99351619	0.36604515
33.5	1048216.	13216.	0.01260809	0.98739191	0.36367178
34.5	1038651.	181176.	0.17443395	0.82556605	0.35908657
35.5	866571.	42829.	0.04942353	0.95057647	0.29644968
36.5	809485.	19107.	0.02360390	0.97639610	0.28179809
37.5	615531.	3528.	0.00573164	0.99426836	0.27514656
38.5	609926.	4990.	0.00818132	0.99181868	0.27356952

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	603784.	6869.	0.01137659	0.98862341	0.27133136
40.5	595037.	4083.	0.00686176	0.99313824	0.26824453
41.5	611882.	9902.	0.01618286	0.98381714	0.26640391
42.5	608576.	0.	0.00000000	1.00000000	0.26209273
43.5	609997.	2062.	0.00338034	0.99661966	0.26209273
44.5	586694.	40980.	0.06984902	0.93015098	0.26120676
45.5	398482.	2178.	0.00546574	0.99453426	0.24296173
46.5	259177.	0.	0.00000000	1.00000000	0.24163376
47.5	254972.	2875.	0.01127575	0.98872425	0.24163376
48.5	121263.	600.	0.00494792	0.99505208	0.23890916
49.5	103788.	0.	0.00000000	1.00000000	0.23772706
50.5	103787.	0.	0.00000000	1.00000000	0.23772706
51.5	103552.	0.	0.00000000	1.00000000	0.23772706
52.5	32941.	7645.	0.23208160	0.76791840	0.23772706
53.5	44424.	0.	0.00000000	1.00000000	0.18255498
54.5	45069.	0.	0.00000000	1.00000000	0.18255498
55.5	45069.	2899.	0.06432359	0.93567641	0.18255498
56.5	85164.	0.	0.00000000	1.00000000	0.17081239
57.5	85164.	2808.	0.03297168	0.96702832	0.17081239
58.5	82356.	0.	0.00000000	1.00000000	0.16518042
59.5	82356.	888.	0.01078246	0.98921754	0.16518042
60.5	81468.	0.	0.00000000	1.00000000	0.16339937
61.5	81468.	6573.	0.08068199	0.91931801	0.16339937
62.5	74895.	0.	0.00000000	1.00000000	0.15021598
63.5	74895.	4669.	0.06234061	0.93765939	0.15021598
64.5	70226.	0.	0.00000000	1.00000000	0.14085143
65.5	70226.	0.	0.00000000	1.00000000	0.14085143
66.5	70226.	0.	0.00000000	1.00000000	0.14085143
67.5	70226.	0.	0.00000000	1.00000000	0.14085143
68.5	70226.	0.	0.00000000	1.00000000	0.14085143
69.5	70226.	0.	0.00000000	1.00000000	0.14085143
70.5	70225.	30008.	0.42731221	0.57268779	0.14085143
71.5	33388.	0.	0.00000000	1.00000000	0.08066389
72.5	33388.	0.	0.00000000	1.00000000	0.08066389
73.5	33387.	0.	0.00000000	1.00000000	0.08066389
74.5	29395.	0.	0.00000000	1.00000000	0.08066389
75.5	29395.	0.	0.00000000	1.00000000	0.08066389
76.5	29395.	0.	0.00000000	1.00000000	0.08066389
77.5	29395.	0.	0.00000000	1.00000000	0.08066389
78.5	29395.	0.	0.00000000	1.00000000	0.08066389

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37500 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
79.5	29395.	0.	0.00000000	1.00000000	0.08066389
80.5	29395.	0.	0.00000000	1.00000000	0.08066389
81.5	29394.	3852.	0.13104715	0.86895285	0.08066389
82.5	10267.	0.	0.00000000	1.00000000	0.07009312
83.5	10267.	0.	0.00000000	1.00000000	0.07009312
84.5	10266.	2196.	0.21390999	0.78609001	0.07009312
TOTAL		11023526.			30.16933835

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37500 Structures & Improvements

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 27.684520 FIT INDEX 0.005420 VARIANCE 0.612011

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	26998400.	396520.	327139.	0.01468680	0.01211699	1.00000000	1.00000000	0.00	0.00000000
0.5	26582177.	3325.	651012.	0.00012508	0.02449055	0.98531320	0.98788301	1.81	0.00590570
1.5	25881223.	108721.	647126.	0.00420077	0.02500368	0.98518996	0.96368921	5.42	0.01752325
2.5	25551111.	144277.	651983.	0.00564660	0.02551681	0.98105140	0.93959344	9.03	0.02891218
3.5	24996674.	263183.	650662.	0.01052872	0.02602995	0.97551179	0.91561800	12.64	0.04007849
4.5	23847260.	329171.	632980.	0.01380330	0.02654308	0.96524090	0.89178451	16.25	0.05102799
5.5	22419623.	400633.	606590.	0.01786975	0.02705622	0.95191739	0.86811381	19.87	0.06176626
6.5	21895192.	329767.	603636.	0.01506116	0.02756935	0.93490687	0.84462593	23.48	0.07229882
7.5	21419540.	3876132.	601514.	0.18096243	0.02808248	0.92082608	0.82134015	27.09	0.08263088
8.5	16470378.	291273.	470981.	0.01768466	0.02859562	0.75419116	0.79827488	30.70	0.09276765
9.5	14697802.	425108.	427835.	0.02892324	0.02910875	0.74085355	0.77544771	34.32	0.10271402
10.5	11926469.	928497.	353284.	0.07785179	0.02962188	0.71942566	0.75287540	37.93	0.11247483
11.5	10262018.	174479.	309246.	0.01700241	0.03013502	0.66341709	0.73057381	41.54	0.12205476
12.5	9716858.	335244.	297804.	0.03450128	0.03064815	0.65213740	0.70855796	45.15	0.13145824
13.5	9330403.	59601.	290747.	0.00638783	0.03116128	0.62963783	0.68684197	48.76	0.14068967
14.5	8602328.	128709.	272474.	0.01496211	0.03167442	0.62561581	0.66543909	52.38	0.14975342
15.5	8384394.	172020.	269873.	0.02051669	0.03218755	0.61625527	0.64436170	55.99	0.15865344
16.5	8355202.	65745.	273221.	0.00786875	0.03270068	0.60361176	0.62362128	59.60	0.16739382
17.5	7942031.	128433.	263785.	0.01617130	0.03321382	0.59886209	0.60322843	63.21	0.17597841
18.5	7226043.	1468682.	243712.	0.20324844	0.03372695	0.58917771	0.58319292	66.82	0.18441100
19.5	5782861.	20249.	198006.	0.00350155	0.03424008	0.46942825	0.56352360	70.44	0.19269520
20.5	5746343.	27906.	199704.	0.00485631	0.03475322	0.46778452	0.54422850	74.05	0.20083456
21.5	5448938.	63747.	192164.	0.01169898	0.03526635	0.46551282	0.52531481	77.66	0.20883255
22.5	4364535.	93766.	156161.	0.02148362	0.03577948	0.46006680	0.50678887	81.27	0.21669253
23.5	4302268.	13047.	156141.	0.00303259	0.03629262	0.45018290	0.48865623	84.88	0.22441768
24.5	4245692.	46261.	156266.	0.01089599	0.03680575	0.44881768	0.47092162	88.50	0.23201114
25.5	2158009.	53951.	80534.	0.02500036	0.03731888	0.44392737	0.45358899	92.11	0.23947601
26.5	1999963.	74500.	75663.	0.03725069	0.03783202	0.43282902	0.43666156	95.72	0.24681530
27.5	1716230.	34675.	65809.	0.02020417	0.03834515	0.41670584	0.42014177	99.33	0.25403183
28.5	1641320.	41546.	63779.	0.02531255	0.03885828	0.40828665	0.40403137	102.95	0.26112846
29.5	1616614.	42115.	63648.	0.02605136	0.03937142	0.39795187	0.38833140	106.56	0.26810788
30.5	1441632.	52360.	57499.	0.03631995	0.03988455	0.38758468	0.37304225	110.17	0.27497268
31.5	1292177.	25817.	52201.	0.01997946	0.04039768	0.37350763	0.35816362	113.78	0.28172554

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37500 Structures & Improvements

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 27.684520 FIT INDEX 0.005420 VARIANCE 0.612011

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	1254355.	8133.	51317.	0.00648381	0.04091082	0.36604515	0.34369464	117.39	0.28836898
33.5	1048216.	13216.	43421.	0.01260809	0.04142395	0.36367178	0.32963381	121.01	0.29490537
34.5	1038651.	181176.	43558.	0.17443395	0.04193709	0.35908657	0.31597908	124.62	0.30133711
35.5	866571.	42829.	36786.	0.04942353	0.04245022	0.29644968	0.30272784	128.23	0.30766651
36.5	809485.	19107.	34778.	0.02360390	0.04296335	0.28179809	0.28987697	131.84	0.31389581
37.5	615531.	3528.	26761.	0.00573164	0.04347649	0.27514656	0.27742289	135.45	0.32002722
38.5	609926.	4990.	26830.	0.00818132	0.04398962	0.27356952	0.26536151	139.07	0.32606286
39.5	603784.	6869.	26870.	0.01137659	0.04450275	0.27133136	0.25368836	142.68	0.33200476
40.5	595037.	4083.	26786.	0.00686176	0.04501589	0.26824453	0.24239853	146.29	0.33785501
41.5	611882.	9902.	27858.	0.01618286	0.04552902	0.26640391	0.23148675	149.90	0.34361556
42.5	608576.	0.	28020.	0.00000000	0.04604215	0.26209273	0.22094738	153.52	0.34928829
43.5	609997.	2062.	28399.	0.00338034	0.04655529	0.26209273	0.21077449	157.13	0.35487509
44.5	586694.	40980.	27615.	0.06984902	0.04706842	0.26120676	0.20096182	160.74	0.36037773
45.5	398482.	2178.	18960.	0.00546574	0.04758155	0.24296173	0.19150287	164.35	0.36579803
46.5	259177.	0.	12465.	0.00000000	0.04809469	0.24163376	0.18239086	167.96	0.37113769
47.5	254972.	2875.	12394.	0.01127575	0.04860782	0.24163376	0.17361883	171.58	0.37639842
48.5	121263.	600.	5957.	0.00494792	0.04912095	0.23890916	0.16517960	175.19	0.38158184
49.5	103788.	0.	5151.	0.00000000	0.04963409	0.23772706	0.15706582	178.80	0.38668953
50.5	103787.	0.	5205.	0.00000000	0.05014722	0.23772706	0.14927000	182.41	0.39172312
51.5	103552.	0.	5246.	0.00000000	0.05066035	0.23772706	0.14178453	186.02	0.39668409
52.5	32941.	7645.	1686.	0.23208160	0.05117349	0.23772706	0.13460167	189.64	0.40157390
53.5	44424.	0.	2296.	0.00000000	0.05168662	0.18255498	0.12771363	193.25	0.40639404
54.5	45069.	0.	2353.	0.00000000	0.05219975	0.18255498	0.12111255	196.86	0.41114595
55.5	45069.	2899.	2376.	0.06432359	0.05271289	0.18255498	0.11479050	200.47	0.41583099
56.5	85164.	0.	4533.	0.00000000	0.05322602	0.17081239	0.10873956	204.09	0.42045052
57.5	85164.	2808.	4577.	0.03297168	0.05373915	0.17081239	0.10295179	207.70	0.42500586
58.5	82356.	0.	4468.	0.00000000	0.05425229	0.16518042	0.09741925	211.31	0.42949827
59.5	82356.	888.	4510.	0.01078246	0.05476542	0.16518042	0.09213403	214.92	0.43392907
60.5	81468.	0.	4503.	0.00000000	0.05527856	0.16339937	0.08708827	218.53	0.43829946
61.5	81468.	6573.	4545.	0.08068199	0.05579169	0.16339937	0.08227416	222.15	0.44261067
62.5	74895.	0.	4217.	0.00000000	0.05630482	0.15021598	0.07768394	225.76	0.44686393
63.5	74895.	4669.	4255.	0.06234061	0.05681796	0.15021598	0.07330996	229.37	0.45106034
64.5	70226.	0.	4026.	0.00000000	0.05733109	0.14085143	0.06914464	232.98	0.45520111

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37500 Structures & Improvements

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 27.684520 FIT INDEX 0.005420 VARIANCE 0.612011

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
65.5	70226.	0.	4062.	0.00000000	0.05784422	0.14085143	0.06518050	236.59	0.45928727
66.5	70226.	0.	4098.	0.00000000	0.05835736	0.14085143	0.06141019	240.21	0.46332002
67.5	70226.	0.	4134.	0.00000000	0.05887049	0.14085143	0.05782645	243.82	0.46730038
68.5	70226.	0.	4170.	0.00000000	0.05938362	0.14085143	0.05442218	247.43	0.47122943
69.5	70226.	0.	4206.	0.00000000	0.05989676	0.14085143	0.05119039	251.04	0.47510823
70.5	70225.	30008.	4242.	0.42731221	0.06040989	0.14085143	0.04812426	254.65	0.47893778
71.5	33388.	0.	2034.	0.00000000	0.06092302	0.08066389	0.04521707	258.27	0.48271912
72.5	33388.	0.	2051.	0.00000000	0.06143616	0.08066389	0.04246231	261.88	0.48645328
73.5	33387.	0.	2068.	0.00000000	0.06194929	0.08066389	0.03985359	265.49	0.49014119
74.5	29395.	0.	1836.	0.00000000	0.06246242	0.08066389	0.03738469	269.10	0.49378386
75.5	29395.	0.	1851.	0.00000000	0.06297556	0.08066389	0.03504955	272.72	0.49738230
76.5	29395.	0.	1866.	0.00000000	0.06348869	0.08066389	0.03284229	276.33	0.50093745
77.5	29395.	0.	1881.	0.00000000	0.06400182	0.08066389	0.03075717	279.94	0.50445026
78.5	29395.	0.	1896.	0.00000000	0.06451496	0.08066389	0.02878866	283.55	0.50792169
79.5	29395.	0.	1912.	0.00000000	0.06502809	0.08066389	0.02693136	287.16	0.51135272
80.5	29395.	0.	1927.	0.00000000	0.06554122	0.08066389	0.02518006	290.78	0.51474427
81.5	29394.	3852.	1942.	0.13104715	0.06605436	0.08066389	0.02352973	294.39	0.51809734
82.5	10267.	0.	683.	0.00000000	0.06656749	0.07009312	0.02197549	298.00	0.52141287
83.5	10267.	0.	689.	0.00000000	0.06708062	0.07009312	0.02051264	301.61	0.52469181
84.5	10266.	2196.	694.	0.21390999	0.06759376	0.07009312	0.01913664	305.22	0.52793516
TOTAL (EXCEPT AGE 0)	10627010.	10627000.							

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37500 Structures & Improvements

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 27.684520 FIT INDEX 0.005420 VARIANCE 0.612011

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
85.5					0.06810689		0.01784312	308.84	0.53114390
86.5					0.06862003		0.01662788	312.45	0.53431901
87.5					0.06913316		0.01548687	316.06	0.53746155
88.5					0.06964629		0.01441622	319.67	0.54057258
89.5					0.07015943		0.01341218	323.29	0.54365312
90.5					0.07067256		0.01247119	326.90	0.54670429
91.5					0.07118569		0.01158982	330.51	0.54972722
92.5					0.07169883		0.01076479	334.12	0.55272313
93.5					0.07221196		0.00999297	337.73	0.55569320
94.5					0.07272509		0.00927136	341.35	0.55863870
95.5					0.07323823		0.00859710	344.96	0.56156098
96.5					0.07375136		0.00796746	348.57	0.56446146
97.5					0.07426449		0.00737985	352.18	0.56734158
98.5					0.07477763		0.00683179	355.79	0.57020294
99.5					0.07529076		0.00632092	359.41	0.57304715
100.5					0.07580389		0.00584502	363.02	0.57587601
101.5					0.07631703		0.00540194	366.63	0.57869139
102.5					0.07683016		0.00498968	370.24	0.58149530
103.5					0.07734329		0.00460632	373.86	0.58428988
104.5					0.07785643		0.00425005	377.47	0.58707748
105.5					0.07836956		0.00391916	381.08	0.58986062
106.5					0.07888269		0.00361202	384.69	0.59264203
107.5					0.07939583		0.00332709	388.30	0.59542464
108.5					0.07990896		0.00306293	391.92	0.59821163
109.5					0.08042209		0.00281818	395.53	0.60100653
110.5					0.08093523		0.00259154	399.14	0.60381314
111.5					0.08144836		0.00238179	402.75	0.60663563
112.5					0.08196149		0.00218780	406.36	0.60947856
113.5					0.08247463		0.00200848	409.98	0.61234693
114.5					0.08298776		0.00184283	413.59	0.61524624
115.5					0.08350090		0.00168990	417.20	0.61818252
116.5					0.08401403		0.00154879	420.81	0.62116243
117.5					0.08452716		0.00141867	424.42	0.62419332

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37500 Structures & Improvements

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 27.684520 FIT INDEX 0.005420 VARIANCE 0.612011

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
118.5					0.08504030		0.00129875	428.04	0.62728329
119.5					0.08555343		0.00118831	431.65	0.63044131
120.5					0.08606656		0.00108664	435.26	0.63367728
121.5					0.08657970		0.00099312	438.87	0.63700216
122.5					0.08709283		0.00090714	442.49	0.64042811
123.5					0.08760596		0.00082813	446.10	0.64396866
124.5					0.08811910		0.00075558	449.71	0.64763879
125.5					0.08863223		0.00068900	453.32	0.65145511
126.5					0.08914536		0.00062793	456.93	0.65543617
127.5					0.08965850		0.00057196	460.55	0.65960257
128.5					0.09017163		0.00052068	464.16	0.66397725
129.5					0.09068476		0.00047373	467.77	0.66858581
130.5					0.09119790		0.00043077	471.38	0.67345675
131.5					0.09171103		0.00039148	474.99	0.67862192
132.5					0.09222416		0.00035558	478.61	0.68411688
133.5					0.09273730		0.00032278	482.22	0.68998130
134.5					0.09325043		0.00029285	485.83	0.69625962
135.5					0.09376356		0.00026554	489.44	0.70300148
136.5					0.09427670		0.00024064	493.06	0.71026251
137.5					0.09478983		0.00021796	496.67	0.71810496
138.5					0.09530296		0.00019730	500.28	0.72659860
139.5					0.09581610		0.00017849	503.89	0.73582166
140.5					0.09632923		0.00016139	507.50	0.74586192
141.5					0.09684237		0.00014584	511.12	0.75681788
142.5					0.09735550		0.00013172	514.73	0.76880018
143.5					0.09786863		0.00011890	518.34	0.78193313
144.5					0.09838177		0.00010726	521.95	0.79635652
145.5					0.09889490		0.00009671	525.56	0.81222758
146.5					0.09940803		0.00008714	529.18	0.82972323
147.5					0.09992117		0.00007848	532.79	0.84904277
148.5					0.10043430		0.00007064	536.40	0.87041068
149.5					0.10094743		0.00006354	540.01	0.89408004
150.5					0.10146057		0.00005713	543.63	0.92033629

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37500 Structures & Improvements

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 27.684520 FIT INDEX 0.005420 VARIANCE 0.612011

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
151.5					0.10197370		0.00005133	547.24	0.94950152
152.5							0.00004610	550.85	0.98193937

EQUIVALENT H CURVE IS -0.24

EQUIVALENT L CURVE IS 0.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS

Peoples Gas System
Net Salvage Analysis
Account - 375.00 - Structures & Improvements
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	1,000	(705)	(71)	0	0	(705)	(71)
2009	0	(39,049)	0	107,474	0	68,425	0
2008	573,067	(1,358)	(0)	0	0	(1,358)	(0)
2007	107,654	(14,948)	(14)	46,766	43	31,818	30
2006	47,704	(13,161)	(28)	4,102	9	(9,059)	(19)
2005	1,152	0	0	0	0	0	0
2004	2,232,687	(21,668)	(1)	1,570,854	70	1,549,187	69
2003	124,298	(12,866)	(10)	0	0	(12,866)	(10)
2002	72,292	0	0	(28,526)	(39)	(28,526)	(39)
2001	3,938,933	(33,431)	(1)	3,002,010	76	2,968,579	75
2000	414,293	0	0	327,043	79	327,043	79
1999	1,166,778	0	0	491,932	42	491,932	42
1998	256,057	(4,200)	(2)	15,662	6	11,462	4
1997	463,947	(8,426)	(2)	0	0	(8,426)	(2)
1996	106,990	(10,320)	(10)	0	0	(10,320)	(10)
1995	249,511	(15,305)	(6)	883	0	(14,423)	(6)
1994	366,517	(21,090)	(6)	0	0	(21,090)	(6)
1993	426,455	(5,556)	(1)	0	0	(5,556)	(1)
1992	31,850	0	0	0	0	0	0
1991	17,731	0	0	0	0	0	0
1990	39,447	(1,168)	(3)	0	0	(1,168)	(3)
1989	5,355	0	0	0	0	0	0
1988	800	0	0	0	0	0	0
1987	8,899	0	0	0	0	0	0
1986	168,735	(2,146)	(1)	0	0	(2,146)	(1)
1985	7,383	(444)	(6)	0	0	(444)	(6)
1984	141,648	(547)	(0)	583,890	412	583,343	412
1983	52,323	(8,246)	(16)	0	0	(8,246)	(16)
1982	0	0	0	0	0	0	0
	11,023,506	**(214,634)**	**(2)**	**6,122,090**	**56**	**5,907,456**	**54**

Peoples Gas System
Net Salvage Analysis
Account - 375.00 - Structures & Improvements
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	729,424	(69,220)	(9)	158,342	22	89,122	12
2009	729,577	(68,515)	(9)	158,342	22	89,827	12
2008	2,962,263	(51,134)	(2)	1,621,722	55	1,570,588	53
2007	2,513,495	(62,643)	(2)	1,621,722	65	1,559,080	62
2006	2,478,133	(47,695)	(2)	1,546,430	62	1,498,735	60
2005	6,369,362	(67,965)	(1)	4,544,338	71	4,476,373	70
2004	6,782,503	(67,965)	(1)	4,871,380	72	4,803,415	71
2003	5,716,595	(46,297)	(1)	3,792,458	66	3,746,161	66
2002	5,848,354	(37,631)	(1)	3,808,121	65	3,770,490	64
2001	6,240,008	(46,057)	(1)	3,836,647	61	3,790,590	61
2000	2,408,066	(22,946)	(1)	834,637	35	811,691	34
1999	2,243,283	(38,252)	(2)	508,478	23	470,226	21
1998	1,443,022	(59,342)	(4)	16,545	1	(42,797)	(3)
1997	1,613,420	(60,698)	(4)	883	0	(59,815)	(4)
1996	1,181,323	(52,272)	(4)	883	0	(51,389)	(4)
1995	1,092,064	(41,951)	(4)	883	0	(41,069)	(4)
1994	882,000	(27,814)	(3)	0	0	(27,814)	(3)
1993	520,838	(6,723)	(1)	0	0	(6,723)	(1)
1992	95,183	(1,168)	(1)	0	0	(1,168)	(1)
1991	72,232	(1,168)	(2)	0	0	(1,168)	(2)
1990	223,236	(3,314)	(1)	0	0	(3,314)	(1)
1989	191,172	(2,591)	(1)	0	0	(2,591)	(1)
1988	327,465	(3,138)	(1)	583,890	178	580,752	177
1987	378,988	(11,384)	(3)	583,890	154	572,506	151
1986	370,089	(11,384)	(3)	583,890	158	572,506	155

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -60.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	7055900.	0.012309	86849.	6969051.
2010	1.50	15184916.	0.036860	559713.	14625203.
2009	2.50	36712324.	0.061327	2251448.	34460876.
2008	3.50	8023355.	0.085691	687530.	7335825.
2007	4.50	3818615.	0.109954	419873.	3398742.
2006	5.50	6284200.	0.134089	842641.	5441559.
2005	6.50	3660013.	0.158090	578610.	3081403.
2004	7.50	3825825.	0.181936	696055.	3129770.
2003	8.50	6787507.	0.205625	1395678.	5391829.
2002	9.50	7940531.	0.229138	1819479.	6121052.
2001	10.50	18748709.	0.252457	4733249.	14015460.
2000	11.50	17598122.	0.275574	4849587.	12748535.
1999	12.50	29976345.	0.298473	8947132.	21029213.
1998	13.50	14582487.	0.321139	4683005.	9899482.
1997	14.50	5534220.	0.343560	1901339.	3632881.
1996	15.50	3744589.	0.365733	1369519.	2375070.
1995	16.50	7728094.	0.387635	2995681.	4732413.
1994	17.50	4449797.	0.409260	1821124.	2628673.
1993	18.50	4717597.	0.430603	2031411.	2686186.
1992	19.50	3317502.	0.451649	1498347.	1819155.
1991	20.50	14031421.	0.472390	6628307.	7403114.
1990	21.50	4002381.	0.492819	1972451.	2029930.
1989	22.50	3453772.	0.512930	1771542.	1682230.
1988	23.50	5696235.	0.532709	3034437.	2661798.
1987	24.50	3488169.	0.552150	1925992.	1562177.
1986	25.50	8228836.	0.571241	4700651.	3528185.
1985	26.50	2291590.	0.589968	1351965.	939625.
1984	27.50	3027250.	0.608317	1841527.	1185723.
1983	28.50	2648686.	0.626275	1658806.	989880.
1982	29.50	2482645.	0.643824	1598387.	884258.
1981	30.50	4401496.	0.660941	2909131.	1492365.
1980	31.50	2675838.	0.677609	1813172.	862666.
1979	32.50	3349836.	0.693800	2324116.	1025720.
1978	33.50	3310371.	0.709500	2348707.	961664.
1977	34.50	1629375.	0.724683	1180780.	448595.
1976	35.50	1850799.	0.739322	1368337.	482462.
1975	36.50	2440633.	0.753407	1838790.	601843.
1974	37.50	3354564.	0.766916	2572668.	781896.
1973	38.50	3075115.	0.779838	2398092.	677023.
1972	39.50	2200924.	0.792168	1743502.	457422.
1971	40.50	2236538.	0.803899	1797951.	438587.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -60.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	1808294.	0.815035	1473822.	334472.
1969	42.50	1767045.	0.825586	1458847.	308198.
1968	43.50	3971659.	0.835567	3318587.	653072.
1967	44.50	1768490.	0.844998	1494370.	274120.
1966	45.50	914422.	0.853909	780833.	133589.
1965	46.50	1137150.	0.862338	980607.	156543.
1964	47.50	1057122.	0.870325	920039.	137083.
1963	48.50	814684.	0.877915	715223.	99461.
1962	49.50	697368.	0.885166	617287.	80081.
1961	50.50	693829.	0.892138	618991.	74838.
1960	51.50	2731285.	0.898887	2455118.	276167.
1959	52.50	2381703.	0.905477	2156576.	225127.
1958	53.50	1935255.	0.911962	1764879.	170376.
1957	54.50	351284.	0.918391	322616.	28668.
1956	55.50	283234.	0.924791	261932.	21302.
1955	56.50	107015.	0.931178	99650.	7365.
1954	57.50	139162.	0.937561	130473.	8689.
1953	58.50	153300.	0.943926	144704.	8596.
1952	59.50	126602.	0.950240	120302.	6300.
1951	60.50	91711.	0.956473	87719.	3992.
1950	61.50	83542.	0.962629	80420.	3122.
1949	62.50	26389.	0.968650	25562.	827.
1948	63.50	100024.	0.974664	97490.	2534.
1947	64.50	280600.	0.980808	275215.	5385.
1946	65.50	164487.	0.989111	162696.	1791.
1945	66.50	28644.	1.000000	28644.	0.
1944	67.50	13287.	1.000000	13287.	0.
1943	68.50	35955.	1.000000	35955.	0.
1942	69.50	54956.	1.000000	54956.	0.
1941	70.50	86707.	1.000000	86707.	0.
1940	71.50	219966.	1.000000	219966.	0.
1939	72.50	32011.	1.000000	32011.	0.
1938	73.50	23678.	1.000000	23678.	0.
1937	74.50	59833.	1.000000	59833.	0.
1936	75.50	59590.	1.000000	59590.	0.
1935	76.50	2293.	1.000000	2293.	0.
1934	77.50	66282.	1.000000	66282.	0.
1933	78.50	831.	1.000000	831.	0.
1932	79.50	2425.	1.000000	2425.	0.
1931	80.50	10481.	1.000000	10481.	0.
1930	81.50	13384.	1.000000	13384.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -60.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
	1929	82.50	7694.	1.000000	7694.	0.
	1928	83.50	23998.	1.000000	23998.	0.
	1927	84.50	120627.	1.000000	120627.	0.
	1926	85.50	103263.	1.000000	103263.	0.
SUBTOTAL :				0.364440	114477443.	199641240.
NET SALVAGE: -60.0%					68686466.	-68686466.
TOTAL :			314118683.	0.583104	183163910.	130954773.

WEIGHTED AGE: 16.9 YEARS
REMAINING LIFE: 25.4 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -60.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	7055900.	0.025000	176398.
2010	1.50 - 2.50	15184916.	0.025000	379623.
2009	2.50 - 3.50	36712324.	0.025000	917808.
2008	3.50 - 4.50	8023355.	0.025000	200584.
2007	4.50 - 5.50	3818615.	0.025000	95465.
2006	5.50 - 6.50	6284200.	0.025000	157105.
2005	6.50 - 7.50	3660013.	0.025000	91500.
2004	7.50 - 8.50	3825825.	0.025000	95646.
2003	8.50 - 9.50	6787507.	0.025000	169688.
2002	9.50 - 10.50	7940531.	0.025000	198513.
2001	10.50 - 11.50	18748709.	0.025000	468718.
2000	11.50 - 12.50	17598122.	0.025000	439953.
1999	12.50 - 13.50	29976345.	0.025000	749409.
1998	13.50 - 14.50	14582487.	0.025000	364562.
1997	14.50 - 15.50	5534220.	0.025000	138356.
1996	15.50 - 16.50	3744589.	0.025000	93615.
1995	16.50 - 17.50	7728094.	0.025000	193202.
1994	17.50 - 18.50	4449797.	0.025000	111245.
1993	18.50 - 19.50	4717597.	0.025000	117940.
1992	19.50 - 20.50	3317502.	0.025000	82938.
1991	20.50 - 21.50	14031421.	0.025000	350786.
1990	21.50 - 22.50	4002381.	0.025000	100060.
1989	22.50 - 23.50	3453772.	0.025000	86344.
1988	23.50 - 24.50	5696235.	0.025000	142406.
1987	24.50 - 25.50	3488169.	0.025000	87204.
1986	25.50 - 26.50	8228836.	0.025000	205721.
1985	26.50 - 27.50	2291590.	0.025000	57290.
1984	27.50 - 28.50	3027250.	0.025000	75681.
1983	28.50 - 29.50	2648686.	0.025000	66217.
1982	29.50 - 30.50	2482645.	0.025000	62066.
1981	30.50 - 31.50	4401496.	0.025000	110037.
1980	31.50 - 32.50	2675838.	0.025000	66896.
1979	32.50 - 33.50	3349836.	0.025000	83746.
1978	33.50 - 34.50	3310371.	0.025000	82759.
1977	34.50 - 35.50	1629375.	0.025000	40734.
1976	35.50 - 36.50	1850799.	0.025000	46270.
1975	36.50 - 37.50	2440633.	0.025000	61016.
1974	37.50 - 38.50	3354564.	0.025000	83864.
1973	38.50 - 39.50	3075115.	0.025000	76878.
1972	39.50 - 40.50	2200924.	0.025000	55023.
1971	40.50 - 41.50	2236538.	0.025000	55913.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -60.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	1808294.	0.025000	45207.
1969	42.50 - 43.50	1767045.	0.025000	44176.
1968	43.50 - 44.50	3971659.	0.025000	99291.
1967	44.50 - 45.50	1768490.	0.025000	44212.
1966	45.50 - 46.50	914422.	0.025000	22861.
1965	46.50 - 47.50	1137150.	0.025000	28429.
1964	47.50 - 48.50	1057122.	0.025000	26428.
1963	48.50 - 49.50	814684.	0.025000	20367.
1962	49.50 - 50.50	697368.	0.025000	17434.
1961	50.50 - 51.50	693829.	0.025000	17346.
1960	51.50 - 52.50	2731285.	0.025000	68282.
1959	52.50 - 53.50	2381703.	0.025000	59543.
1958	53.50 - 54.50	1935255.	0.025000	48381.
1957	54.50 - 55.50	351284.	0.025000	8782.
1956	55.50 - 56.50	283234.	0.025000	7081.
1955	56.50 - 57.50	107015.	0.025000	2675.
1954	57.50 - 58.50	139162.	0.025000	3479.
1953	58.50 - 59.50	153300.	0.025000	3833.
1952	59.50 - 60.50	126602.	0.025000	3165.
1951	60.50 - 61.50	91711.	0.025000	2293.
1950	61.50 - 62.50	83542.	0.025000	2089.
1949	62.50 - 63.50	26389.	0.025000	660.
1948	63.50 - 64.50	100024.	0.025000	2501.
1947	64.50 - 65.50	280600.	0.025000	7015.
1946	65.50 - 66.50	164487.	0.025000	4112.
1945	66.50 - 67.50	28644.	0.025000	716.
1944	67.50 - 68.50	13287.	0.025000	332.
1943	68.50 - 69.50	35955.	0.025000	899.
1942	69.50 - 70.50	54956.	0.025000	1374.
1941	70.50 - 71.50	86707.	0.025000	2168.
1940	71.50 - 72.50	219966.	0.025000	5499.
1939	72.50 - 73.50	32011.	0.025000	800.
1938	73.50 - 74.50	23678.	0.025000	592.
1937	74.50 - 75.50	59833.	0.025000	1496.
1936	75.50 - 76.50	59590.	0.025000	1490.
1935	76.50 - 77.50	2293.	0.025000	57.
1934	77.50 - 78.50	66282.	0.025000	1657.
1933	78.50 - 79.50	831.	0.025000	21.
1932	79.50 - 80.50	2425.	0.025000	61.
1931	80.50 - 81.50	10481.	0.025000	262.
1930	81.50 - 82.50	13384.	0.025000	335.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -60.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
	1929	82.50 - 83.50	7694.	0.025000	192.
	1928	83.50 - 84.50	23998.	0.025000	600.
	1927	84.50 - 85.50	120627.	0.025000	3016.
	1926	85.50 - 86.50	103263.	0.025000	2582.
SUBTOTAL :			314118683.	0.025000	7852967.
NET SALVAGE: -60.0 %					4711780.
TOTAL :			314118683.	0.040000	12564747.

MONTHLY RATE: 0.003333

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	7055900.	39.5	278762057.
2010	1.50	15184916.	38.5	585008124.
2009	2.50	36712324.	37.5	1378435021.
2008	3.50	8023355.	36.6	293432980.
2007	4.50	3818615.	35.6	135949692.
2006	5.50	6284200.	34.6	217662365.
2005	6.50	3660013.	33.7	123256102.
2004	7.50	3825825.	32.7	125190809.
2003	8.50	6787507.	31.8	215673155.
2002	9.50	7940531.	30.8	244842087.
2001	10.50	18748709.	29.9	560618406.
2000	11.50	17598122.	29.0	509941404.
1999	12.50	29976345.	28.1	841168527.
1998	13.50	14582487.	27.2	395979279.
1997	14.50	5534220.	26.3	145315238.
1996	15.50	3744589.	25.4	95002794.
1995	16.50	7728094.	24.5	189296519.
1994	17.50	4449797.	23.6	105146925.
1993	18.50	4717597.	22.8	107447433.
1992	19.50	3317502.	21.9	72766196.
1991	20.50	14031421.	21.1	296124550.
1990	21.50	4002381.	20.3	81197194.
1989	22.50	3453772.	19.5	67289184.
1988	23.50	5696235.	18.7	106471923.
1987	24.50	3488169.	17.9	62487068.
1986	25.50	8228836.	17.2	141127381.
1985	26.50	2291590.	16.4	37585003.
1984	27.50	3027250.	15.7	47428917.
1983	28.50	2648686.	14.9	39595215.
1982	29.50	2482645.	14.2	35370329.
1981	30.50	4401496.	13.6	59694596.
1980	31.50	2675838.	12.9	34506648.
1979	32.50	3349836.	12.2	41028782.
1978	33.50	3310371.	11.6	38466562.
1977	34.50	1629375.	11.0	17943800.
1976	35.50	1850799.	10.4	19298498.
1975	36.50	2440633.	9.9	24073728.
1974	37.50	3354564.	9.3	31275858.
1973	38.50	3075115.	8.8	27080939.
1972	39.50	2200924.	8.3	18296899.
1971	40.50	2236538.	7.8	17543487.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	1808294.	7.4	13378864.
1969	42.50	1767045.	7.0	12327901.
1968	43.50	3971659.	6.6	26122865.
1967	44.50	1768490.	6.2	10964812.
1966	45.50	914422.	5.8	5343561.
1965	46.50	1137150.	5.5	6261711.
1964	47.50	1057122.	5.2	5483310.
1963	48.50	814684.	4.9	3978432.
1962	49.50	697368.	4.6	3203255.
1961	50.50	693829.	4.3	2993516.
1960	51.50	2731285.	4.0	11046694.
1959	52.50	2381703.	3.8	9005060.
1958	53.50	1935255.	3.5	6815043.
1957	54.50	351284.	3.3	1146716.
1956	55.50	283234.	3.0	852071.
1955	56.50	107015.	2.8	294598.
1954	57.50	139162.	2.5	347566.
1953	58.50	153300.	2.2	343846.
1952	59.50	126602.	2.0	251988.
1951	60.50	91711.	1.7	159676.
1950	61.50	83542.	1.5	124883.
1949	62.50	26389.	1.3	33092.
1948	63.50	100024.	1.0	101368.
1947	64.50	280600.	0.8	215414.
1946	65.50	164487.	0.4	71641.
1945	66.50	28644.	0.0	0.
1944	67.50	13287.	0.0	0.
1943	68.50	35955.	0.0	0.
1942	69.50	54956.	0.0	0.
1941	70.50	86707.	0.0	0.
1940	71.50	219966.	0.0	0.
1939	72.50	32011.	0.0	0.
1938	73.50	23678.	0.0	0.
1937	74.50	59833.	0.0	0.
1936	75.50	59590.	0.0	0.
1935	76.50	2293.	0.0	0.
1934	77.50	66282.	0.0	0.
1933	78.50	831.	0.0	0.
1932	79.50	2425.	0.0	0.
1931	80.50	10481.	0.0	0.
1930	81.50	13384.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

	I	II	III	IV	V
	YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
	1929	82.50	7694.	0.0	0.
	1928	83.50	23998.	0.0	0.
	1927	84.50	120627.	0.0	0.
	1926	85.50	103263.	0.0	0.
TOTAL:			314118683.	25.4	7985649557.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 40.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0125	99.98075	0.01925	49.99519	0.025000	1.24988	1.23063	0.012309
1.50	0.0375	99.93475	0.04600	99.95775	0.025000	2.49894	3.68357	0.036860
2.50	0.0625	99.87875	0.05600	99.90675	0.025000	2.49767	6.12524	0.061327
3.50	0.0875	99.81025	0.06850	99.84450	0.025000	2.49611	8.55285	0.085691
4.50	0.1125	99.72875	0.08150	99.76950	0.025000	2.49424	10.96559	0.109954
5.50	0.1375	99.63050	0.09825	99.67963	0.025000	2.49199	13.35933	0.134089
6.50	0.1625	99.51400	0.11650	99.57225	0.025000	2.48931	15.73214	0.158090
7.50	0.1875	99.37575	0.13825	99.44438	0.025000	2.48612	18.08001	0.181936
8.50	0.2125	99.21425	0.16150	99.29500	0.025000	2.48238	20.40089	0.205625
9.50	0.2375	99.02600	0.18825	99.12012	0.025000	2.47800	22.69064	0.229138
10.50	0.2625	98.80700	0.21900	98.91650	0.025000	2.47291	24.94455	0.252457
11.50	0.2875	98.55450	0.25250	98.68075	0.025000	2.46702	27.15907	0.275574
12.50	0.3125	98.26450	0.29000	98.40950	0.025000	2.46024	29.32931	0.298473
13.50	0.3375	97.93275	0.33175	98.09862	0.025000	2.45247	31.45002	0.321139
14.50	0.3625	97.55525	0.37750	97.74400	0.025000	2.44360	33.51612	0.343560
15.50	0.3875	97.12875	0.42650	97.34200	0.025000	2.43355	35.52317	0.365733
16.50	0.4125	96.64725	0.48150	96.88800	0.025000	2.42220	37.46387	0.387635
17.50	0.4375	96.10650	0.54075	96.37687	0.025000	2.40942	39.33254	0.409260
18.50	0.4625	95.50250	0.60400	95.80450	0.025000	2.39511	41.12366	0.430603
19.50	0.4875	94.82925	0.67325	95.16587	0.025000	2.37915	42.82955	0.451649
20.50	0.5125	94.08150	0.74775	94.45537	0.025000	2.36138	44.44319	0.472390
21.50	0.5375	93.25400	0.82750	93.66775	0.025000	2.34169	45.95738	0.492819
22.50	0.5625	92.34125	0.91275	92.79763	0.025000	2.31994	47.36457	0.512930
23.50	0.5875	91.33650	1.00475	91.83888	0.025000	2.29597	48.65580	0.532709
24.50	0.6125	90.23350	1.10300	90.78500	0.025000	2.26963	49.82242	0.552150
25.50	0.6375	89.02525	1.20825	89.62938	0.025000	2.24073	50.85490	0.571241
26.50	0.6625	87.70350	1.32175	88.36438	0.025000	2.20911	51.74226	0.589968
27.50	0.6875	86.26025	1.44325	86.98187	0.025000	2.17455	52.47356	0.608317
28.50	0.7125	84.68750	1.57275	85.47387	0.025000	2.13685	53.03766	0.626275
29.50	0.7375	82.97600	1.71150	83.83175	0.025000	2.09579	53.42195	0.643824
30.50	0.7625	81.11550	1.86050	82.04575	0.025000	2.05114	53.61259	0.660941
31.50	0.7875	79.09725	2.01825	80.10637	0.025000	2.00266	53.59700	0.677609
32.50	0.8125	76.91100	2.18625	78.00412	0.025000	1.95010	53.36086	0.693800
33.50	0.8375	74.55025	2.36075	75.73062	0.025000	1.89327	52.89337	0.709500
34.50	0.8625	72.00750	2.54275	73.27887	0.025000	1.83197	52.18259	0.724683
35.50	0.8875	69.27650	2.73100	70.64200	0.025000	1.76605	51.21765	0.739322
36.50	0.9125	66.35800	2.91850	67.81725	0.025000	1.69543	49.99458	0.753407
37.50	0.9375	63.25300	3.10500	64.80550	0.025000	1.62014	48.50971	0.766916
38.50	0.9625	59.96950	3.28350	61.61125	0.025000	1.54028	46.76649	0.779838

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600. Mains Steel

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 40.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	0.9875	56.52100	3.44850	58.24525	0.025000	1.45613	44.77413	0.792168
40.50	1.0125	52.92575	3.59525	54.72337	0.025000	1.36808	42.54696	0.803899
41.50	1.0375	49.20975	3.71600	51.06775	0.025000	1.27669	40.10766	0.815035
42.50	1.0625	45.40575	3.80400	47.30775	0.025000	1.18269	37.48635	0.825586
43.50	1.0875	41.55150	3.85425	43.47862	0.025000	1.08697	34.71906	0.835567
44.50	1.1125	37.68925	3.86225	39.62037	0.025000	0.99051	31.84732	0.844998
45.50	1.1375	33.86575	3.82350	35.77750	0.025000	0.89444	28.91826	0.853909
46.50	1.1625	30.12850	3.73725	31.99713	0.025000	0.79993	25.98094	0.862338
47.50	1.1875	26.52325	3.60525	28.32588	0.025000	0.70815	23.08384	0.870325
48.50	1.2125	23.09225	3.43100	24.80775	0.025000	0.62019	20.27303	0.877915
49.50	1.2375	19.87350	3.21875	21.48287	0.025000	0.53707	17.59135	0.885166
50.50	1.2625	16.89675	2.97675	18.38512	0.025000	0.45963	15.07423	0.892138
51.50	1.2875	14.18250	2.71425	15.53963	0.025000	0.38849	12.74847	0.898887
52.50	1.3125	11.74275	2.43975	12.96263	0.025000	0.32407	10.63279	0.905477
53.50	1.3375	9.58025	2.16250	10.66150	0.025000	0.26654	8.73682	0.911962
54.50	1.3625	7.68975	1.89050	8.63500	0.025000	0.21587	7.06220	0.918391
55.50	1.3875	6.05900	1.63075	6.87437	0.025000	0.17186	5.60331	0.924791
56.50	1.4125	4.67225	1.38675	5.36563	0.025000	0.13414	4.35070	0.931178
57.50	1.4375	3.51150	1.16075	4.09188	0.025000	0.10230	3.29225	0.937561
58.50	1.4625	2.55725	0.95425	3.03437	0.025000	0.07586	2.41385	0.943926
59.50	1.4875	1.78975	0.76750	2.17350	0.025000	0.05434	1.70069	0.950240
60.50	1.5125	1.19025	0.59950	1.49000	0.025000	0.03725	1.13844	0.956473
61.50	1.5375	0.74050	0.44975	0.96538	0.025000	0.02413	0.71283	0.962629
62.50	1.5625	0.42000	0.32050	0.58025	0.025000	0.01451	0.40683	0.968650
63.50	1.5875	0.20925	0.21075	0.31463	0.025000	0.00787	0.20395	0.974664
64.50	1.6125	0.08475	0.12450	0.14700	0.025000	0.00368	0.08312	0.980808
65.50	1.6375	0.02425	0.06050	0.05450	0.025000	0.00136	0.02399	0.989111
66.50	1.6625	0.00325	0.02100	0.01375	0.025000	0.00034	0.00333	1.000000
67.50	1.6875	0.00000	0.00325	0.00162	0.025000	0.00004	0.00000	1.000000
		3999.99999	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
2011	7055900.	0.	0.	0.	0.	0.	0.	0.	0
2010	15184916.	0.	0.	0.	0.	0.	0.	0.	0
2009	36712324.	0.	21217.	23252.	0.	0.	0.	0.	0
2008	8023355.	0.	63248.	74320.	0.	0.	0.	0.	0
2007	3818615.	0.	0.	0.	0.	0.	0.	0.	0
2006	6284200.	0.	0.	598.	0.	0.	0.	0.	0
2005	3660013.	0.	5825.	6220.	0.	12932.	1121.	0.	0
2004	3825825.	0.	7963.	0.	0.	8736.	0.	0.	0
2003	6787507.	0.	1204.	40404.	0.	2420.	0.	16844.	0
2002	7940531.	0.	12389.	0.	0.	0.	0.	112587.	0
2001	18748709.	0.	1181.	0.	0.	0.	13720.	36589.	1909
2000	17598122.	0.	291.	0.	92470.	164189.	0.	240463.	10776
1999	29976345.	24480.	12965.	23744.	305578.	73567.	248341.	94055.	180586
1998	14582487.	0.	871325.	6069.	41864.	166480.	0.	505013.	21505
1997	5534220.	0.	0.	11431.	0.	0.	0.	5878.	5949
1996	3744589.	0.	19148.	330.	0.	0.	807.	7541.	15467
1995	7728094.	0.	0.	16402.	9271.	687.	0.	0.	23251
1994	4449797.	0.	0.	4329.	0.	88078.	0.	45689.	463
1993	4717597.	0.	0.	1494.	0.	15169.	0.	5177.	31831
1992	3317502.	0.	104644.	567.	0.	5847.	0.	32759.	9021
1991	14031421.	0.	28207.	0.	7021.	59503.	452.	20201.	5398
1990	4002381.	0.	198.	13416.	0.	0.	4946.	0.	36581
1989	3453772.	0.	96803.	0.	87836.	0.	0.	22767.	6998
1988	5696235.	0.	24350.	841.	0.	3749.	0.	3751.	0
1987	3488169.	0.	8223.	22091.	0.	72351.	492.	26578.	55837
1986	8228836.	0.	115813.	4803.	0.	6569.	0.	11541.	117
1985	2291590.	0.	0.	4482.	0.	51437.	0.	106.	33274
1984	3027250.	0.	0.	2511.	0.	0.	1661.	0.	27984
1983	2648686.	0.	3734.	5759.	0.	13097.	434.	14785.	2672
1982	2482645.	0.	33.	0.	25060.	85726.	0.	15859.	11307
1981	4401496.	0.	0.	0.	0.	0.	0.	0.	10028
1980	2675838.	5316.	0.	0.	5352.	1151.	1747.	0.	0
1979	3349836.	0.	0.	0.	13120.	0.	0.	14227.	0
1978	3310371.	0.	10979.	2478.	0.	0.	1270.	4408.	32874
1977	1629375.	0.	0.	0.	3094.	0.	252.	6846.	2315
1976	1850799.	0.	3015.	0.	0.	37328.	0.	0.	17109
1975	2440633.	3900.	5968.	9822.	0.	7298.	271.	1801.	8064
1974	3354564.	0.	18811.	5862.	2329.	19288.	691.	15552.	8132
1973	3075115.	3744.	10462.	6293.	4679.	4204.	0.	28352.	3059
1972	2200924.	25416.	2957.	11144.	12431.	472.	6114.	473.	13084

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	2236538.	80629.	9827.	10096.	30788.	10703.	2175.	61330.	33455
1970	1808294.	0.	1290.	0.	8257.	3994.	217.	0.	9430
1969	1767045.	0.	6580.	0.	9679.	2021.	0.	11365.	6509
1968	3971659.	54720.	17068.	54600.	9318.	27910.	2087.	7094.	50618
1967	1768490.	0.	5194.	36847.	563.	2441.	1219.	1696.	2929
1966	914422.	0.	1961.	0.	21161.	4513.	0.	23200.	0
1965	1137150.	0.	679.	13408.	5228.	11620.	5784.	3724.	11683
1964	1057122.	0.	207.	656.	5028.	24361.	1628.	0.	20288
1963	814684.	0.	3972.	14807.	2906.	7458.	0.	13388.	609
1962	697368.	0.	883.	1474.	6456.	1417.	0.	396.	0
1961	693829.	0.	196.	884.	1569.	4185.	754.	0.	1189
1960	2731285.	0.	80713.	20274.	13494.	22076.	14891.	9441.	21963
1959	2381703.	290737.	27571.	59198.	8335.	65350.	70328.	1037747.	35496
1958	1935255.	27128.	22408.	22574.	2697.	4774.	16020.	21933.	9525
1957	351284.	0.	0.	0.	19.	0.	0.	97.	540
1956	283234.	0.	0.	0.	0.	0.	0.	0.	58
1955	107015.	0.	0.	0.	0.	0.	0.	0.	0
1954	139162.	0.	501.	0.	0.	0.	0.	0.	0
1953	153300.	0.	0.	0.	0.	0.	0.	0.	0
1952	126602.	0.	0.	593.	0.	0.	0.	341.	0
1951	91711.	0.	10.	0.	164.	0.	0.	0.	360
1950	83542.	0.	0.	6.	12.	0.	367.	0.	9
1949	26389.	0.	0.	0.	0.	0.	0.	0.	0
1948	100024.	0.	0.	699.	2611.	0.	0.	940.	186
1947	280600.	0.	0.	401.	69.	0.	0.	2683.	84
1946	164487.	0.	570.	356.	1769.	2.	0.	9.	967
1945	28644.	0.	124.	44.	33.	0.	0.	120.	163
1944	13287.	0.	0.	0.	0.	0.	0.	0.	0
1943	35955.	0.	0.	547.	0.	0.	0.	0.	0
1942	54956.	0.	0.	0.	0.	0.	1015.	7.	0
1941	86707.	0.	0.	0.	0.	0.	0.	0.	0
1940	219966.	0.	711.	110.	87.	5773.	245.	6.	382
1939	32011.	0.	292.	501.	192.	158.	0.	25.	47
1938	23678.	0.	0.	0.	0.	0.	0.	11.	0
1937	59833.	0.	599.	0.	0.	0.	0.	48.	0
1936	59590.	0.	0.	348.	852.	978.	0.	1997.	528
1935	2293.	0.	13.	0.	188.	66.	0.	0.	0
1934	66282.	150204.	2052.	6.	0.	235.	0.	447.	2118
1933	831.	0.	0.	0.	0.	0.	0.	0.	0
1932	2425.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1931	10481.	0.	0.	0.	0.	0.	0.	0.	0
1930	13384.	0.	0.	0.	0.	0.	0.	0.	0
1929	7694.	0.	0.	0.	0.	38.	0.	0.	198
1928	23998.	0.	0.	393.	0.	87.	12.	10.	26
1927	120627.	0.	0.	5082.	4406.	0.	204.	0.	9039
1926	103263.	84988.	0.	25190.	40041.	17387.	0.	2296.	37394
TOTAL	314118683.	751262.	1634374.	567756.	786027.	1117825.	399265.	2490193.	831384

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	7055900.	0.	0.	0.	0.	0.	0.	0.	0
2010	15184916.	0.	0.	0.	0.	0.	0.	0.	0
2009	36712324.	0.	0.	0.	0.	0.	0.	0.	0
2008	8023355.	0.	0.	0.	0.	0.	0.	0.	0
2007	3818615.	0.	0.	0.	0.	0.	0.	0.	0
2006	6284200.	0.	0.	0.	0.	0.	0.	0.	0
2005	3660013.	0.	0.	0.	0.	0.	0.	0.	0
2004	3825825.	0.	0.	0.	0.	0.	0.	0.	0
2003	6787507.	0.	0.	0.	0.	0.	0.	0.	0
2002	7940531.	0.	0.	0.	0.	0.	0.	0.	0
2001	18748709.	49471.	0.	0.	0.	0.	0.	0.	0
2000	17598122.	0.	0.	0.	0.	0.	0.	0.	0
1999	29976345.	3470.	22059.	229446.	0.	0.	0.	0.	0
1998	14582487.	38345.	71959.	1178.	0.	0.	5615.	0.	0
1997	5534220.	58233.	38923.	0.	0.	0.	0.	0.	0
1996	3744589.	14085.	1546.	1615.	1278.	1218.	32013.	1617.	517
1995	7728094.	0.	29093.	0.	4457.	137963.	15789.	400.	0
1994	4449797.	102295.	0.	43100.	83.	0.	0.	246.	41811
1993	4717597.	237304.	207.	0.	0.	0.	0.	20820.	0
1992	3317502.	54026.	12640.	0.	0.	0.	1881.	2242.	16583
1991	14031421.	123179.	42945.	0.	0.	0.	32284.	4828.	25469
1990	4002381.	105119.	22455.	62217.	0.	0.	26749.	0.	58164
1989	3453772.	82475.	34864.	0.	589.	0.	0.	2106.	7728
1988	5696235.	40126.	15330.	1947.	3010.	0.	1663.	4348.	0
1987	3488169.	1716.	52810.	24361.	0.	0.	0.	106.	480
1986	8228836.	144305.	42843.	1712.	3442.	792.	103.	13456.	7956
1985	2291590.	68901.	20078.	0.	15270.	1331.	296.	3912.	104211
1984	3027250.	25365.	0.	0.	46655.	0.	0.	0.	0
1983	2648686.	5953.	0.	0.	0.	0.	0.	0.	101356
1982	2482645.	26480.	8719.	4460.	2383.	16762.	11256.	0.	0
1981	4401496.	57420.	39945.	1372.	2690.	5686.	2407.	0.	0
1980	2675838.	0.	23205.	12133.	14047.	2264.	0.	2475.	13260
1979	3349836.	0.	13531.	2318.	6520.	0.	0.	52.	0
1978	3310371.	0.	0.	21841.	85.	0.	40.	0.	0
1977	1629375.	0.	2690.	936.	2296.	0.	0.	0.	0
1976	1850799.	21275.	3717.	0.	0.	661.	10637.	0.	0
1975	2440633.	1660.	2472.	4685.	0.	0.	12339.	10275.	1549
1974	3354564.	22013.	4984.	4938.	134.	0.	76.	18947.	65571
1973	3075115.	13808.	15803.	5283.	27935.	7605.	2163.	4913.	16191
1972	2200924.	7690.	0.	7960.	673.	6855.	1101.	924.	3042

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	2236538.	116325.	5715.	170.	4070.	2041.	663.	27724.	9703
1970	1808294.	3792.	4602.	1561.	12496.	15954.	1784.	2445.	20438
1969	1767045.	13244.	44667.	1548.	1112.	2773.	0.	1458.	29048
1968	3971659.	54907.	3982.	6391.	30232.	47878.	16597.	29940.	12116
1967	1768490.	29161.	4709.	1115.	12340.	255.	8024.	4008.	76
1966	914422.	28812.	4294.	6494.	6992.	9849.	51.	0.	0
1965	1137150.	3025.	12855.	19345.	13066.	4584.	10131.	1343.	10789
1964	1057122.	28893.	5292.	139.	12.	175.	0.	158.	0
1963	814684.	20826.	1762.	7821.	4780.	1714.	253.	0.	0
1962	697368.	3586.	191.	13461.	1294.	2734.	6307.	0.	254
1961	693829.	3017.	7913.	15176.	377.	9626.	3313.	4334.	1220
1960	2731285.	48672.	14177.	19988.	9811.	42863.	30058.	32500.	17596
1959	2381703.	123114.	41686.	30013.	47845.	43023.	21394.	41348.	68622
1958	1935255.	14147.	17894.	1541.	38092.	8733.	22561.	24224.	10558
1957	351284.	851.	5755.	2348.	1170.	279.	0.	0.	123
1956	283234.	16.	1041.	0.	444.	117.	139.	5156.	133
1955	107015.	0.	111.	172.	0.	0.	0.	646.	0
1954	139162.	0.	84.	0.	0.	1232.	0.	518.	0
1953	153300.	13.	0.	706.	0.	0.	112.	0.	284
1952	126602.	0.	0.	42.	166.	120.	0.	166.	0
1951	91711.	405.	0.	0.	0.	0.	0.	12.	0
1950	83542.	0.	478.	0.	0.	0.	0.	21.	0
1949	26389.	0.	0.	0.	0.	0.	0.	180.	97
1948	100024.	0.	436.	206.	0.	0.	0.	0.	280
1947	280600.	0.	298.	79.	363.	4810.	565.	1785.	6740
1946	164487.	0.	611.	1594.	537.	182.	0.	1229.	127
1945	28644.	0.	327.	0.	0.	287.	600.	0.	0
1944	13287.	0.	153.	133.	0.	0.	0.	0.	0
1943	35955.	41.	0.	0.	0.	127.	0.	0.	0
1942	54956.	0.	147.	0.	0.	131.	1.	0.	0
1941	86707.	1016.	51.	565.	0.	0.	1246.	131.	202
1940	219966.	246.	52.	44.	196.	1824.	536.	158.	2714
1939	32011.	172.	267.	0.	109.	5.	0.	41.	113
1938	23678.	0.	47.	101.	0.	0.	0.	123.	0
1937	59833.	35.	0.	365.	133.	0.	3900.	1646.	5977
1936	59590.	688.	214.	0.	0.	0.	307.	57.	441
1935	2293.	0.	0.	0.	24.	50.	4.	52.	116
1934	66282.	2813.	198.	76.	83.	12.	829.	1293.	0
1933	831.	0.	0.	0.	0.	0.	0.	0.	0
1932	2425.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1931	10481.	151.	0.	0.	0.	0.	0.	0.	0
1930	13384.	0.	0.	0.	0.	0.	0.	0.	0
1929	7694.	0.	0.	0.	0.	0.	430.	0.	0
1928	23998.	320.	0.	0.	0.	1325.	0.	0.	0
1927	120627.	0.	4539.	0.	108.	0.	0.	0.	0
1926	103263.	11271.	49066.	6310.	3603.	3419.	142.	6818.	0
TOTAL	314118683.	1814273.	756432.	569006.	321002.	387259.	286359.	281181.	661655

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	7055900.	0.	0.	0.	0.	0.	0.	0.	0
2010	15184916.	0.	0.	0.	0.	0.	0.	0.	0
2009	36712324.	0.	0.	0.	0.	0.	0.	0.	0
2008	8023355.	0.	0.	0.	0.	0.	0.	0.	0
2007	3818615.	0.	0.	0.	0.	0.	0.	0.	0
2006	6284200.	0.	0.	0.	0.	0.	0.	0.	0
2005	3660013.	0.	0.	0.	0.	0.	0.	0.	0
2004	3825825.	0.	0.	0.	0.	0.	0.	0.	0
2003	6787507.	0.	0.	0.	0.	0.	0.	0.	0
2002	7940531.	0.	0.	0.	0.	0.	0.	0.	0
2001	18748709.	0.	0.	0.	0.	0.	0.	0.	0
2000	17598122.	0.	0.	0.	0.	0.	0.	0.	0
1999	29976345.	0.	0.	0.	0.	0.	0.	0.	0
1998	14582487.	0.	0.	0.	0.	0.	0.	0.	0
1997	5534220.	0.	0.	0.	0.	0.	0.	0.	0
1996	3744589.	0.	0.	0.	0.	0.	0.	0.	0
1995	7728094.	83.	0.	0.	0.	0.	0.	0.	0
1994	4449797.	1591.	0.	0.	0.	0.	0.	0.	0
1993	4717597.	6094.	2538.	0.	0.	0.	0.	0.	0
1992	3317502.	0.	6305.	211.	0.	0.	0.	0.	0
1991	14031421.	36613.	0.	0.	0.	0.	0.	0.	0
1990	4002381.	36277.	1965.	0.	0.	6010.	0.	0.	0
1989	3453772.	24911.	0.	0.	0.	811.	9409.	0.	0
1988	5696235.	8235.	23799.	5883.	1253.	263.	0.	0.	3455
1987	3488169.	20771.	127.	3230.	31590.	2139.	354.	25899.	38276
1986	8228836.	489945.	51556.	10087.	45493.	5594.	28169.	2111.	4850
1985	2291590.	0.	3849.	5035.	45717.	0.	0.	540.	1145
1984	3027250.	0.	1986.	32929.	12331.	14574.	0.	2167.	7862
1983	2648686.	8809.	0.	5666.	21107.	1527.	2755.	3831.	44987
1982	2482645.	4252.	10816.	0.	187.	4219.	0.	0.	40334
1981	4401496.	3427.	0.	30961.	22898.	396.	0.	6323.	14611
1980	2675838.	7579.	0.	21811.	2241.	9870.	46083.	0.	0
1979	3349836.	0.	4053.	4048.	1199.	6363.	24477.	0.	1875
1978	3310371.	8669.	0.	0.	22114.	14486.	0.	10305.	14582
1977	1629375.	1084.	2221.	0.	9995.	0.	0.	586.	0
1976	1850799.	19397.	1276.	1599.	4383.	12536.	859.	6292.	0
1975	2440633.	2153.	16683.	0.	36103.	11676.	2430.	0.	7709
1974	3354564.	10511.	5575.	1497.	23548.	43090.	1245.	35912.	3085
1973	3075115.	17669.	201.	0.	13555.	6713.	14296.	7983.	0
1972	2200924.	8720.	2311.	1240.	8136.	15889.	0.	19129.	1386

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	2236538.	8374.	30420.	35710.	40547.	66316.	25687.	231.	6189
1970	1808294.	0.	1741.	1350.	11182.	3634.	3871.	0.	0
1969	1767045.	19878.	0.	30955.	7623.	18121.	0.	5520.	65
1968	3971659.	35367.	7242.	142.	14892.	95204.	839.	12594.	5953
1967	1768490.	858.	0.	124.	48452.	713.	0.	0.	3481
1966	914422.	5140.	1146.	4658.	0.	477.	1234.	0.	0
1965	1137150.	930.	139.	23043.	1863.	7308.	0.	2085.	0
1964	1057122.	163.	280.	3424.	40.	22072.	0.	0.	0
1963	814684.	224.	838.	0.	0.	3472.	0.	420.	2121
1962	697368.	133.	5237.	12536.	293.	1146.	228.	207.	1576
1961	693829.	5510.	0.	3044.	2419.	1019.	1170.	0.	6842
1960	2731285.	11871.	4067.	34022.	67480.	14736.	1000.	2703.	12862
1959	2381703.	31782.	20027.	11806.	112060.	106633.	44587.	44141.	74578
1958	1935255.	23311.	9381.	31750.	44406.	66853.	19602.	16346.	16746
1957	351284.	0.	805.	575.	39.	3625.	1792.	21120.	0
1956	283234.	2484.	27321.	896.	2368.	4313.	7370.	377.	0
1955	107015.	85.	1406.	1485.	6199.	4405.	3538.	10262.	6385
1954	139162.	239.	2190.	283.	7.	6639.	2681.	777.	160
1953	153300.	404.	602.	114.	4709.	14840.	0.	0.	1562
1952	126602.	7721.	1913.	0.	331.	3991.	365.	826.	4515
1951	91711.	0.	1207.	0.	47.	1022.	48.	144.	1200
1950	83542.	0.	0.	0.	84.	4061.	2241.	532.	5898
1949	26389.	0.	2474.	0.	181.	323.	7916.	10910.	18554
1948	100024.	90.	11162.	14451.	775.	4331.	257.	4817.	7583
1947	280600.	161.	4166.	116.	2072.	2457.	812.	50.	1787
1946	164487.	0.	80134.	128.	68.	1191.	2023.	1290.	1725
1945	28644.	125.	860.	0.	0.	7.	11279.	6964.	4643
1944	13287.	86.	0.	0.	0.	10079.	0.	195.	2341
1943	35955.	0.	0.	0.	0.	98.	0.	44.	258
1942	54956.	79.	0.	0.	0.	7398.	366.	0.	34
1941	86707.	48.	57.	0.	1721.	639.	0.	186.	48
1940	219966.	499.	92.	5641.	662.	600.	384.	3132.	2081
1939	32011.	368.	96.	12550.	1600.	48665.	6911.	69200.	11
1938	23678.	4236.	1001.	53563.	41191.	604585.	8620.	77575.	349585
1937	59833.	533.	550.	916.	196.	10062.	208.	145.	2395
1936	59590.	1344.	1675.	245.	515.	0.	4778.	0.	123
1935	2293.	330.	0.	0.	13873.	0.	500.	0.	87934
1934	66282.	3422.	41.	1211.	24853.	39478.	107284.	2875.	19318
1933	831.	0.	0.	0.	0.	0.	0.	0.	0
1932	2425.	0.	0.	24.	2260.	0.	55.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1931	10481.	0.	0.	0.	0.	0.	0.	0.	121
1930	13384.	0.	0.	0.	543.	58.	627.	0.	0
1929	7694.	0.	98.	162.	0.	1993.	64.	0.	39
1928	23998.	0.	6805.	2032.	7293.	1538.	510.	2350.	8359
1927	120627.	157.	8142.	10733.	6134.	0.	2473.	436.	1576
1926	103263.	26864.	26566.	36602.	18188.	288.	7052.	10710.	10786
TOTAL	314118683.	909606.	395142.	458488.	789016.	1340546.	408449.	430242.	853591

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
2011	7055900.	0.	0.	0.	0.	0.
2010	15184916.	0.	0.	0.	0.	0.
2009	36712324.	0.	0.	0.	0.	0.
2008	8023355.	0.	0.	0.	0.	0.
2007	3818615.	0.	0.	0.	0.	0.
2006	6284200.	0.	0.	0.	0.	0.
2005	3660013.	0.	0.	0.	0.	0.
2004	3825825.	0.	0.	0.	0.	0.
2003	6787507.	0.	0.	0.	0.	0.
2002	7940531.	0.	0.	0.	0.	0.
2001	18748709.	0.	0.	0.	0.	0.
2000	17598122.	0.	0.	0.	0.	0.
1999	29976345.	0.	0.	0.	0.	0.
1998	14582487.	0.	0.	0.	0.	0.
1997	5534220.	0.	0.	0.	0.	0.
1996	3744589.	0.	0.	0.	0.	0.
1995	7728094.	0.	0.	0.	0.	0.
1994	4449797.	0.	0.	0.	0.	0.
1993	4717597.	0.	0.	0.	0.	0.
1992	3317502.	0.	0.	0.	0.	0.
1991	14031421.	0.	0.	0.	0.	0.
1990	4002381.	0.	0.	0.	0.	0.
1989	3453772.	0.	0.	0.	0.	0.
1988	5696235.	0.	0.	0.	0.	0.
1987	3488169.	239.	0.	0.	0.	0.
1986	8228836.	1926.	4112.	0.	0.	0.
1985	2291590.	0.	626.	2300.	0.	0.
1984	3027250.	32071.	0.	7341.	0.	0.
1983	2648686.	2978.	1352.	4906.	0.	0.
1982	2482645.	0.	0.	3270.	1511.	0.
1981	4401496.	0.	11278.	0.	1167.	3379.
1980	2675838.	0.	5150.	0.	484.	1568.
1979	3349836.	0.	21001.	9066.	0.	6517.
1978	3310371.	46735.	0.	15197.	0.	0.
1977	1629375.	11345.	5452.	27087.	0.	0.
1976	1850799.	976.	5966.	0.	0.	0.
1975	2440633.	19447.	0.	2915.	0.	17.
1974	3354564.	4384.	4522.	830.	26966.	0.
1973	3075115.	12650.	42669.	2848.	0.	2898.
1972	2200924.	36.	16854.	4507.	5000.	431.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1971	2236538.	933.	5655.	4163.	2204.	0.
1970	1808294.	2769.	2549.	15812.	2808.	0.
1969	1767045.	624.	1268.	1635.	127.	891.
1968	3971659.	7692.	19162.	6713.	5171.	0.
1967	1768490.	0.	5206.	17051.	2430.	177.
1966	914422.	787.	1625.	383021.	5423.	0.
1965	1137150.	501.	695.	1031.	197.	8683.
1964	1057122.	467.	2509.	6428.	35.	981.
1963	814684.	293.	16680.	5155.	1197.	0.
1962	697368.	535.	203.	4123.	0.	260.
1961	693829.	3479.	216.	1139.	151.	21159.
1960	2731285.	6849.	4569.	765.	59003.	19353.
1959	2381703.	37074.	267616.	56859.	15172.	59502.
1958	1935255.	42308.	47193.	27302.	11027.	1358.
1957	351284.	363.	0.	778.	366.	0.
1956	283234.	0.	0.	0.	0.	0.
1955	107015.	1424.	0.	0.	0.	607.
1954	139162.	903.	0.	0.	0.	567.
1953	153300.	0.	0.	172.	640.	0.
1952	126602.	0.	0.	350.	0.	0.
1951	91711.	236.	74.	0.	0.	0.
1950	83542.	2211.	55568.	0.	10107.	115.
1949	26389.	0.	141.	2359.	0.	0.
1948	100024.	180.	7644.	1126.	809.	0.
1947	280600.	2250.	0.	437.	227.	487.
1946	164487.	2649.	89.	0.	945.	0.
1945	28644.	29565.	8073.	162.	1291.	0.
1944	13287.	0.	0.	32.	176.	0.
1943	35955.	0.	4717.	1305.	0.	0.
1942	54956.	473.	436.	0.	90.	0.
1941	86707.	217.	0.	414.	0.	0.
1940	219966.	55619.	128622.	102405.	11430.	18833.
1939	32011.	272.	90.	339.	172.	0.
1938	23678.	14130.	11454.	2102.	614.	36.
1937	59833.	0.	212.	0.	1691.	253.
1936	59590.	2.	995.	28.	1666.	878.
1935	2293.	35900.	87.	105.	0.	1970.
1934	66282.	148540.	0.	0.	6615.	0.
1933	831.	0.	0.	0.	0.	0.
1932	2425.	646.	0.	520.	269.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1931	10481.	161.	191.	94.	827.	123.
1930	13384.	3698.	737.	1835.	26018.	10311.
1929	7694.	716.	0.	1271.	0.	40.
1928	23998.	699.	0.	587.	662.	2228.
1927	120627.	15279.	9939.	460.	183.	125.
1926	103263.	16673.	17336.	2120.	3404.	4153.
TOTAL	314118683.	569904.	740533.	730465.	208275.	167900.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	265367125.	39573.	0.00014913	0.99985087	1.00000000
0.5	261026931.	166203.	0.00063673	0.99936327	0.99985087
1.5	250291296.	499920.	0.00199735	0.99800265	0.99921424
2.5	215930626.	207621.	0.00096152	0.99903848	0.99721846
3.5	211177853.	396598.	0.00187803	0.99812197	0.99625962
4.5	210479074.	689421.	0.00327548	0.99672452	0.99438861
5.5	205211027.	444476.	0.00216595	0.99783405	0.99113151
6.5	203104363.	1183290.	0.00582602	0.99417398	0.98898477
7.5	200705118.	353273.	0.00176016	0.99823984	0.98322293
8.5	197267395.	1217472.	0.00617168	0.99382832	0.98149230
9.5	191460483.	445828.	0.00232856	0.99767144	0.97543484
10.5	174650845.	443785.	0.00254098	0.99745902	0.97316347
11.5	159477319.	1166373.	0.00731372	0.99268628	0.97069068
12.5	130274871.	489723.	0.00375915	0.99624085	0.96359132
13.5	117186417.	305339.	0.00260558	0.99739442	0.95996903
14.5	115954946.	221679.	0.00191177	0.99808823	0.95746775
15.5	113946237.	241578.	0.00212011	0.99787989	0.95563730
16.5	107401825.	397679.	0.00370272	0.99629728	0.95361124
17.5	103865238.	292156.	0.00281284	0.99718716	0.95008029
18.5	100035843.	703164.	0.00702912	0.99297088	0.94740787
19.5	96940557.	230985.	0.00238275	0.99761725	0.94074842
20.5	83440449.	275087.	0.00329681	0.99670319	0.93850686
21.5	79956711.	410298.	0.00513150	0.99486850	0.93541278
22.5	79461723.	309244.	0.00389174	0.99610826	0.93061271
23.5	78731591.	322493.	0.00409611	0.99590389	0.92699101
24.5	77478576.	172955.	0.00223229	0.99776771	0.92319396
25.5	69468714.	257553.	0.00370747	0.99629253	0.92113311
26.5	67255038.	480381.	0.00714268	0.99285732	0.91771804
27.5	63891147.	187910.	0.00294110	0.99705890	0.91116308
28.5	61210494.	248427.	0.00405857	0.99594143	0.90848326
29.5	58656880.	124557.	0.00212348	0.99787652	0.90479612
30.5	54278869.	242132.	0.00446089	0.99553911	0.90287480
31.5	51457539.	439696.	0.00854483	0.99145517	0.89884718
32.5	47833259.	363534.	0.00760003	0.99239997	0.89116668
33.5	44228878.	223728.	0.00505841	0.99494159	0.88439379
34.5	42534382.	180440.	0.00424222	0.99575778	0.87992016
35.5	40816642.	312267.	0.00765048	0.99234952	0.87618735
36.5	38326424.	263747.	0.00688160	0.99311840	0.86948409
37.5	34801424.	198966.	0.00571718	0.99428282	0.86350065
38.5	31553825.	275509.	0.00873140	0.99126860	0.85856386

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	29120484.	256564.	0.00881043	0.99118957	0.85106740
40.5	26692515.	196093.	0.00734637	0.99265363	0.84356913
41.5	24781376.	223791.	0.00903061	0.99096939	0.83737196
42.5	23353590.	228811.	0.00979768	0.99020232	0.82980998
43.5	19327327.	220458.	0.01140654	0.98859346	0.82167977
44.5	18531031.	207767.	0.01121184	0.98878816	0.81230724
45.5	17498539.	1231370.	0.07036987	0.92963013	0.80319978
46.5	15208268.	197148.	0.01296321	0.98703679	0.74667871
47.5	14097503.	196590.	0.01394502	0.98605498	0.73699936
48.5	13666514.	66132.	0.00483898	0.99516102	0.72672189
49.5	12903845.	572181.	0.04434190	0.95565810	0.72320529
50.5	11644034.	141335.	0.01213798	0.98786202	0.69113700
51.5	8783563.	413345.	0.04705892	0.95294108	0.68274799
52.5	6045726.	889482.	0.14712575	0.85287425	0.65061861
53.5	3233732.	115539.	0.03572931	0.96427069	0.55489585
54.5	2826143.	64723.	0.02290153	0.97709847	0.53506981
55.5	2677828.	117678.	0.04394532	0.95605468	0.52281589
56.5	3025065.	71013.	0.02347487	0.97652513	0.49984058
57.5	2814890.	36088.	0.01282039	0.98717961	0.48810689
58.5	2625502.	23464.	0.00893696	0.99106304	0.48184917
59.5	2475436.	50004.	0.02020008	0.97979992	0.47754290
60.5	2333721.	29214.	0.01251821	0.98748179	0.46789650
61.5	2220965.	17865.	0.00804380	0.99195620	0.46203927
62.5	2176711.	17161.	0.00788391	0.99211609	0.45832272
63.5	2059526.	17981.	0.00873065	0.99126935	0.45470935
64.5	1760945.	8765.	0.00497744	0.99502256	0.45073944
65.5	1587693.	36875.	0.02322552	0.97677448	0.44849591
66.5	1522174.	51292.	0.03369654	0.96630346	0.43807936
67.5	1457595.	27742.	0.01903272	0.98096728	0.42331760
68.5	1393898.	32406.	0.02324847	0.97675153	0.41526071
69.5	1306536.	3330.	0.00254872	0.99745128	0.40560653
70.5	1216499.	9860.	0.00810523	0.99189477	0.40457276
71.5	986673.	1211.	0.00122736	0.99877264	0.40129360
72.5	953451.	4897.	0.00513608	0.99486392	0.40080107
73.5	924876.	3603.	0.00389566	0.99610434	0.39874252
74.5	861440.	11386.	0.01321740	0.98678260	0.39718916
75.5	790464.	51144.	0.06470124	0.93529876	0.39193935
76.5	737027.	170524.	0.23136737	0.76863263	0.36658039
77.5	500221.	37444.	0.07485491	0.92514509	0.28176565
78.5	461946.	2587.	0.00560022	0.99439978	0.26067410

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37600 Mains Steel

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
79.5	456934.	0.	0.00000000	1.00000000	0.25921427
80.5	446453.	22186.	0.04969392	0.95030608	0.25921427
81.5	410883.	45123.	0.10981958	0.89018042	0.24633290
82.5	358066.	25190.	0.07035016	0.92964984	0.21928072
83.5	308878.	0.	0.00000000	1.00000000	0.20385429
84.5	188251.	84988.	0.45146108	0.54853892	0.20385429
TOTAL		21657410.			60.05952695

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 72.602880 FIT INDEX 0.000864 VARIANCE 0.266686

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	265367125.	39573.	0.	0.00014913	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	261026931.	166203.	31899.	0.00063673	0.00012221	0.99985087	1.00000000	0.69	0.00688636
1.5	250291296.	499920.	105706.	0.00199735	0.00042233	0.99921424	0.99987779	2.07	0.02053938
2.5	215930626.	207621.	156001.	0.00096152	0.00072246	0.99721846	0.99945551	3.44	0.03390201
3.5	211177853.	396598.	215948.	0.00187803	0.00102259	0.99625962	0.99873345	4.82	0.04698212
4.5	210479074.	689421.	278404.	0.00327548	0.00132271	0.99438861	0.99771215	6.20	0.05978718
5.5	205211027.	444476.	333025.	0.00216595	0.00162284	0.99113151	0.99639246	7.58	0.07232457
6.5	203104363.	1183290.	390563.	0.00582602	0.00192297	0.98898477	0.99477548	8.95	0.08460139
7.5	200705118.	353273.	446187.	0.00176016	0.00222310	0.98322293	0.99286256	10.33	0.09662452
8.5	197267395.	1217472.	497750.	0.00617168	0.00252322	0.98149230	0.99065533	11.71	0.10840060
9.5	191460483.	445828.	540560.	0.00232856	0.00282335	0.97543484	0.98815568	13.08	0.11993617
10.5	174650845.	443785.	545518.	0.00254098	0.00312348	0.97316347	0.98536577	14.46	0.13123746
11.5	159477319.	1166373.	545987.	0.00731372	0.00342360	0.97069068	0.98228801	15.84	0.14231055
12.5	130274871.	489723.	485109.	0.00375915	0.00372373	0.96359132	0.97892504	17.22	0.15316129
13.5	117186417.	305339.	471542.	0.00260558	0.00402386	0.95996903	0.97527979	18.59	0.16379539
14.5	115954946.	221679.	501388.	0.00191177	0.00432399	0.95746775	0.97135540	19.97	0.17421842
15.5	113946237.	241578.	526900.	0.00212011	0.00462411	0.95563730	0.96715527	21.35	0.18443571
16.5	107401825.	397679.	528872.	0.00370272	0.00492424	0.95361124	0.96268304	22.73	0.19445248
17.5	103865238.	292156.	542630.	0.00281284	0.00522437	0.95008029	0.95794255	24.10	0.20427380
18.5	100035843.	703164.	552647.	0.00702912	0.00552449	0.94740787	0.95293791	25.48	0.21390454
19.5	96940557.	230985.	564642.	0.00238275	0.00582462	0.94074842	0.94767341	26.86	0.22334945
20.5	83440449.	275087.	511052.	0.00329681	0.00612475	0.93850686	0.94215357	28.24	0.23261316
21.5	79956711.	410298.	513712.	0.00513150	0.00642488	0.93541278	0.93638312	29.61	0.24170015
22.5	79461723.	309244.	534380.	0.00389174	0.00672500	0.93061271	0.93036698	30.99	0.25061474
23.5	78731591.	322493.	553100.	0.00409611	0.00702513	0.92699101	0.92411026	32.37	0.25936118
24.5	77478576.	172955.	567550.	0.00223229	0.00732526	0.92319396	0.91761826	33.75	0.26794357
25.5	69468714.	257553.	529726.	0.00370747	0.00762538	0.92113311	0.91089647	35.12	0.27636587
26.5	67255038.	480381.	533031.	0.00714268	0.00792551	0.91771804	0.90395054	36.50	0.28463196
27.5	63891147.	187910.	525545.	0.00294110	0.00822564	0.91116308	0.89678627	37.88	0.29274557
28.5	61210494.	248427.	521866.	0.00405857	0.00852576	0.90848326	0.88940963	39.25	0.30071037
29.5	58656880.	124557.	517699.	0.00212348	0.00882589	0.90479612	0.88182673	40.63	0.30852987
30.5	54278869.	242132.	495350.	0.00446089	0.00912602	0.90287480	0.87404382	42.01	0.31620760
31.5	51457539.	439696.	485046.	0.00854483	0.00942615	0.89884718	0.86606728	43.39	0.32374678

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 72.602880 FIT INDEX 0.000864 VARIANCE 0.266686

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 84.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	47833259.	363534.	465239.	0.00760003	0.00972627	0.89116668	0.85790361	44.76	0.33115074
33.5	44228878.	223728.	443456.	0.00505841	0.01002640	0.88439379	0.84955940	46.14	0.33842261
34.5	42534382.	180440.	439232.	0.00424222	0.01032653	0.87992016	0.84104138	47.52	0.34556550
35.5	40816642.	312267.	433744.	0.00765048	0.01062665	0.87618735	0.83235634	48.90	0.35258237
36.5	38326424.	263747.	418784.	0.00688160	0.01092678	0.86948409	0.82351118	50.27	0.35947611
37.5	34801424.	198966.	390712.	0.00571718	0.01122691	0.86350065	0.81451285	51.65	0.36624959
38.5	31553825.	275509.	363722.	0.00873140	0.01152704	0.85856386	0.80536839	53.03	0.37290552
39.5	29120484.	256564.	344413.	0.00881043	0.01182716	0.85106740	0.79608488	54.41	0.37944652
40.5	26692515.	196093.	323708.	0.00734637	0.01212729	0.84356913	0.78666946	55.78	0.38587528
41.5	24781376.	223791.	307968.	0.00903061	0.01242742	0.83737196	0.77712929	57.16	0.39219431
42.5	23353590.	228811.	297234.	0.00979768	0.01272754	0.82980998	0.76747158	58.54	0.39840604
43.5	19327327.	220458.	251790.	0.01140654	0.01302767	0.82167977	0.75770355	59.91	0.40451285
44.5	18531031.	207767.	246978.	0.01121184	0.01332780	0.81230724	0.74783244	61.29	0.41051707
45.5	17498539.	1231370.	238469.	0.07036987	0.01362793	0.80319978	0.73786548	62.67	0.41642103
46.5	15208268.	197148.	211822.	0.01296321	0.01392805	0.74667871	0.72780990	64.05	0.42222689
47.5	14097503.	196590.	200582.	0.01394502	0.01422818	0.73699936	0.71767293	65.42	0.42793680
48.5	13666514.	66132.	198551.	0.00483898	0.01452831	0.72672189	0.70746175	66.80	0.43355285
49.5	12903845.	572181.	191344.	0.04434190	0.01482843	0.72320529	0.69718352	68.18	0.43907711
50.5	11644034.	141335.	176157.	0.01213798	0.01512856	0.69113700	0.68684539	69.56	0.44451152
51.5	8783563.	413345.	135519.	0.04705892	0.01542869	0.68274799	0.67645440	70.93	0.44985804
52.5	6045726.	889482.	95092.	0.14712575	0.01572882	0.65061861	0.66601760	72.31	0.45511854
53.5	3233732.	115539.	51833.	0.03572931	0.01602894	0.55489585	0.65554193	73.69	0.46029486
54.5	2826143.	64723.	46148.	0.02290153	0.01632907	0.53506981	0.64503429	75.07	0.46538879
55.5	2677828.	117678.	44530.	0.04394532	0.01662920	0.52281589	0.63450148	76.44	0.47040206
56.5	3025065.	71013.	51212.	0.02347487	0.01692932	0.49984058	0.62395023	77.82	0.47533638
57.5	2814890.	36088.	48499.	0.01282039	0.01722945	0.48810689	0.61338717	79.20	0.48019339
58.5	2625502.	23464.	46024.	0.00893696	0.01752958	0.48184917	0.60281885	80.58	0.48497471
59.5	2475436.	50004.	44136.	0.02020008	0.01782970	0.47754290	0.59225169	81.95	0.48968190
60.5	2333721.	29214.	42310.	0.01251821	0.01812983	0.46789650	0.58169202	83.33	0.49431646
61.5	2220965.	17865.	40932.	0.00804380	0.01842996	0.46203927	0.57114604	84.71	0.49887993
62.5	2176711.	17161.	40770.	0.00788391	0.01873009	0.45832272	0.56061984	86.08	0.50337376
63.5	2059526.	17981.	39193.	0.00873065	0.01903021	0.45470935	0.55011938	87.46	0.50779936
64.5	1760945.	8765.	34040.	0.00497744	0.01933034	0.45073944	0.53965049	88.84	0.51215813

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 72.602880 FIT INDEX 0.000864 VARIANCE 0.266686

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
65.5	1587693.	36875.	31167.	0.02322552	0.01963047	0.44849591	0.52921887	90.22	0.51645139
66.5	1522174.	51292.	30338.	0.03369654	0.01993059	0.43807936	0.51883005	91.59	0.52068048
67.5	1457595.	27742.	29488.	0.01903272	0.02023072	0.42331760	0.50848946	92.97	0.52484668
68.5	1393898.	32406.	28618.	0.02324847	0.02053085	0.41526071	0.49820235	94.35	0.52895126
69.5	1306536.	3330.	27216.	0.00254872	0.02083098	0.40560653	0.48797383	95.73	0.53299545
70.5	1216499.	9860.	25706.	0.00810523	0.02113110	0.40457276	0.47780886	97.10	0.53698041
71.5	986673.	1211.	21146.	0.00122736	0.02143123	0.40129360	0.46771224	98.48	0.54090728
72.5	953451.	4897.	20720.	0.00513608	0.02173136	0.40080107	0.45768859	99.86	0.54477727
73.5	924876.	3603.	20376.	0.00389566	0.02203148	0.39874252	0.44774239	101.24	0.54859144
74.5	861440.	11386.	19237.	0.01321740	0.02233161	0.39718916	0.43787796	102.61	0.55235090
75.5	790464.	51144.	17890.	0.06470124	0.02263174	0.39193935	0.42809944	103.99	0.55605669
76.5	737027.	170524.	16901.	0.23136737	0.02293187	0.36658039	0.41841081	105.37	0.55970986
77.5	500221.	37444.	11621.	0.07485491	0.02323199	0.28176565	0.40881587	106.75	0.56331142
78.5	461946.	2587.	10871.	0.00560022	0.02353212	0.26067410	0.39931826	108.12	0.56686235
79.5	456934.	0.	10890.	0.00000000	0.02383225	0.25921427	0.38992146	109.50	0.57036361
80.5	446453.	22186.	10774.	0.04969392	0.02413237	0.25921427	0.38062875	110.88	0.57381611
81.5	410883.	45123.	10039.	0.10981958	0.02443250	0.24633290	0.37144328	112.25	0.57722080
82.5	358066.	25190.	8856.	0.07035016	0.02473263	0.21928072	0.36236799	113.63	0.58057860
83.5	308878.	0.	7732.	0.00000000	0.02503276	0.20385429	0.35340568	115.01	0.58389033
84.5	188251.	84988.	4769.	0.45146108	0.02533288	0.20385429	0.34455896	116.39	0.58715691
TOTAL (EXCEPT AGE 0)	21617830.	21617840.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 72.602880 FIT INDEX 0.000864 VARIANCE 0.266686

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 84.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
85.5					0.02563301		0.33583029	117.76	0.59037912
86.5					0.02593314		0.32722195	119.14	0.59355782
87.5					0.02623326		0.31873605	120.52	0.59669379
88.5					0.02653339		0.31037457	121.90	0.59978781
89.5					0.02683352		0.30213928	123.27	0.60284064
90.5					0.02713364		0.29403182	124.65	0.60585306
91.5					0.02743377		0.28605366	126.03	0.60882578
92.5					0.02773390		0.27820613	127.41	0.61175951
93.5					0.02803403		0.27049039	128.78	0.61465496
94.5					0.02833415		0.26290746	130.16	0.61751278
95.5					0.02863428		0.25545820	131.54	0.62033369
96.5					0.02893441		0.24814334	132.91	0.62311832
97.5					0.02923453		0.24096346	134.29	0.62586730
98.5					0.02953466		0.23391900	135.67	0.62858127
99.5					0.02983479		0.22701028	137.05	0.63126085
100.5					0.03013492		0.22023748	138.42	0.63390663
101.5					0.03043504		0.21360064	139.80	0.63651917
102.5					0.03073517		0.20709970	141.18	0.63909910
103.5					0.03103530		0.20073445	142.56	0.64164696
104.5					0.03133542		0.19450460	143.93	0.64416330
105.5					0.03163555		0.18840971	145.31	0.64664865
106.5					0.03193568		0.18244927	146.69	0.64910355
107.5					0.03223581		0.17662263	148.07	0.65152850
108.5					0.03253593		0.17092906	149.44	0.65392400
109.5					0.03283606		0.16536772	150.82	0.65629058
110.5					0.03313619		0.15993769	152.20	0.65862871
111.5					0.03343631		0.15463797	153.58	0.66093888
112.5					0.03373644		0.14946745	154.95	0.66322155
113.5					0.03403657		0.14442495	156.33	0.66547716
114.5					0.03433669		0.13950922	157.71	0.66770618
115.5					0.03463682		0.13471893	159.08	0.66990903
116.5					0.03493695		0.13005270	160.46	0.67208615
117.5					0.03523708		0.12550905	161.84	0.67423799

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

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FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
118.5					0.03553720		0.12108648	163.22	0.67636492
119.5					0.03583733		0.11678340	164.59	0.67846739
120.5					0.03613746		0.11259820	165.97	0.68054575
121.5					0.03643758		0.10852919	167.35	0.68260042
122.5					0.03673771		0.10457464	168.73	0.68463177
123.5					0.03703784		0.10073281	170.10	0.68664021
124.5					0.03733797		0.09700189	171.48	0.68862608
125.5					0.03763809		0.09338003	172.86	0.69058973
126.5					0.03793822		0.08986539	174.24	0.69253155
127.5					0.03823835		0.08645605	175.61	0.69445188
128.5					0.03853847		0.08315012	176.99	0.69635106
129.5					0.03883860		0.07994564	178.37	0.69822944
130.5					0.03913873		0.07684066	179.74	0.70008735
131.5					0.03943886		0.07383322	181.12	0.70192509
132.5					0.03973898		0.07092132	182.50	0.70374300
133.5					0.04003911		0.06810298	183.88	0.70554140
134.5					0.04033924		0.06537619	185.25	0.70732059
135.5					0.04063936		0.06273897	186.63	0.70908088
136.5					0.04093949		0.06018930	188.01	0.71082258
137.5					0.04123962		0.05772518	189.39	0.71254597
138.5					0.04153975		0.05534461	190.76	0.71425136
139.5					0.04183987		0.05304561	192.14	0.71593901
140.5					0.04214000		0.05082619	193.52	0.71760924
141.5					0.04244013		0.04868438	194.90	0.71926230
142.5					0.04274025		0.04661820	196.27	0.72089847
143.5					0.04304038		0.04462573	197.65	0.72251804
144.5					0.04334051		0.04270502	199.03	0.72412128
145.5					0.04364063		0.04085416	200.41	0.72570841
146.5					0.04394076		0.03907126	201.78	0.72727974
147.5					0.04424089		0.03735444	203.16	0.72883551
148.5					0.04454102		0.03570185	204.54	0.73037600
149.5					0.04484114		0.03411165	205.91	0.73190144
150.5					0.04514127		0.03258205	207.29	0.73341209

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EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 72.602880 FIT INDEX 0.000864 VARIANCE 0.266686

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
151.5					0.04544140		0.03111125	208.67	0.73490819
152.5					0.04574152		0.02969751	210.05	0.73638999
153.5					0.04604165		0.02833910	211.42	0.73785776
154.5					0.04634178		0.02703432	212.80	0.73931171
155.5					0.04664191		0.02578151	214.18	0.74075213
156.5					0.04694203		0.02457901	215.56	0.74217922
157.5					0.04724216		0.02342522	216.93	0.74359326
158.5					0.04754229		0.02231856	218.31	0.74499446
159.5					0.04784241		0.02125748	219.69	0.74638308
160.5					0.04814254		0.02024048	221.07	0.74775936
161.5					0.04844267		0.01926605	222.44	0.74912355
162.5					0.04874280		0.01833275	223.82	0.75047587
163.5					0.04904292		0.01743916	225.20	0.75181659
164.5					0.04934305		0.01658389	226.58	0.75314596
165.5					0.04964318		0.01576559	227.95	0.75446422
166.5					0.04994330		0.01498294	229.33	0.75577161
167.5					0.05024343		0.01423464	230.71	0.75706841
168.5					0.05054356		0.01351944	232.08	0.75835488
169.5					0.05084369		0.01283612	233.46	0.75963126
170.5					0.05114381		0.01218349	234.84	0.76089783
171.5					0.05144394		0.01156038	236.22	0.76215487
172.5					0.05174407		0.01096567	237.59	0.76340265
173.5					0.05204419		0.01039826	238.97	0.76464144
174.5					0.05234432		0.00985709	240.35	0.76587155
175.5					0.05264445		0.00934113	241.73	0.76709328
176.5					0.05294457		0.00884937	243.10	0.76830693
177.5					0.05324470		0.00838084	244.48	0.76951282
178.5					0.05354483		0.00793461	245.86	0.77071129
179.5					0.05384496		0.00750975	247.24	0.77190265
180.5					0.05414508		0.00710539	248.61	0.77308728
181.5					0.05444521		0.00672067	249.99	0.77426555
182.5					0.05474534		0.00635476	251.37	0.77543781
183.5					0.05504546		0.00600686	252.74	0.77660449

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EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 72.602880 FIT INDEX 0.000864 VARIANCE 0.266686

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
184.5					0.05534559		0.00567621	254.12	0.77776599
185.5					0.05564572		0.00536206	255.50	0.77892273
186.5					0.05594585		0.00506368	256.88	0.78007519
187.5					0.05624597		0.00478039	258.25	0.78122384
188.5					0.05654610		0.00451151	259.63	0.78236918
189.5					0.05684623		0.00425641	261.01	0.78351175
190.5					0.05714635		0.00401445	262.39	0.78465210
191.5					0.05744648		0.00378503	263.76	0.78579084
192.5					0.05774661		0.00356760	265.14	0.78692856
193.5					0.05804674		0.00336158	266.52	0.78806597
194.5					0.05834686		0.00316645	267.90	0.78920373
195.5					0.05864699		0.00298170	269.27	0.79034261
196.5					0.05894712		0.00280683	270.65	0.79148342
197.5					0.05924724		0.00264138	272.03	0.79262697
198.5					0.05954737		0.00248488	273.41	0.79377419
199.5					0.05984750		0.00233691	274.78	0.79492606
200.5					0.06014763		0.00219706	276.16	0.79608358
201.5					0.06044775		0.00206491	277.54	0.79724786
202.5					0.06074788		0.00194009	278.91	0.79842008
203.5					0.06104801		0.00182223	280.29	0.79960149
204.5					0.06134813		0.00171099	281.67	0.80079346
205.5					0.06164826		0.00160602	283.05	0.80199744
206.5					0.06194839		0.00150701	284.42	0.80321498
207.5					0.06224851		0.00141366	285.80	0.80444776
208.5					0.06254864		0.00132566	287.18	0.80569760
209.5					0.06284877		0.00124274	288.56	0.80696641
210.5					0.06314890		0.00116464	289.93	0.80825629
211.5					0.06344902		0.00109109	291.31	0.80956947
212.5					0.06374915		0.00102186	292.69	0.81090839
213.5					0.06404928		0.00095672	294.07	0.81227565
214.5					0.06434940		0.00089544	295.44	0.81367408
215.5					0.06464953		0.00083782	296.82	0.81510670
216.5					0.06494966		0.00078366	298.20	0.81657682

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 72.602880 FIT INDEX 0.000864 VARIANCE 0.266686

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
217.5					0.06524979		0.00073276	299.57	0.81808796
218.5					0.06554991		0.00068495	300.95	0.81964397
219.5					0.06585004		0.00064005	302.33	0.82124898
220.5					0.06615017		0.00059790	303.71	0.82290750
221.5					0.06645029		0.00055835	305.08	0.82462437
222.5					0.06675042		0.00052125	306.46	0.82640485
223.5					0.06705055		0.00048645	307.84	0.82825464
224.5					0.06735068		0.00045384	309.22	0.83017991
225.5					0.06765080		0.00042327	310.59	0.83218733
226.5					0.06795093		0.00039464	311.97	0.83428419
227.5					0.06825106		0.00036782	313.35	0.83647834
228.5					0.06855118		0.00034272	314.73	0.83877832
229.5					0.06885131		0.00031922	316.10	0.84119340
230.5					0.06915144		0.00029724	317.48	0.84373365
231.5					0.06945156		0.00027669	318.86	0.84641001
232.5					0.06975169		0.00025747	320.24	0.84923436
233.5					0.07005182		0.00023951	321.61	0.85221962
234.5					0.07035195		0.00022273	322.99	0.85537984
235.5					0.07065207		0.00020706	324.37	0.85873030
236.5					0.07095220		0.00019244	325.74	0.86228764
237.5					0.07125233		0.00017878	327.12	0.86606993
238.5					0.07155245		0.00016604	328.50	0.87009689
239.5					0.07185258		0.00015416	329.88	0.87438998
240.5					0.07215271		0.00014309	331.25	0.87897257
241.5					0.07245284		0.00013276	332.63	0.88387015
242.5					0.07275296		0.00012314	334.01	0.88911048
243.5					0.07305309		0.00011418	335.39	0.89472385
244.5					0.07335322		0.00010584	336.76	0.90074330
245.5					0.07365334		0.00009808	338.14	0.90720487
246.5					0.07395347		0.00009085	339.52	0.91414791
247.5					0.07425360		0.00008414	340.90	0.92161534
248.5					0.07455373		0.00007789	342.27	0.92965409
249.5					0.07485385		0.00007208	343.65	0.93831540

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 72.602880 FIT INDEX 0.000864 VARIANCE 0.266686

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
250.5					0.07515398		0.00006669	345.03	0.94765525
251.5					0.07545411		0.00006167	346.40	0.95773484
252.5					0.07575423		0.00005702	347.78	0.96862110
253.5					0.07605436		0.00005270	349.16	0.98038720
254.5							0.00004869	350.54	0.99311322

EQUIVALENT H CURVE IS 1.62

EQUIVALENT L CURVE IS 1.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS -0.50

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 61.850640 FIT INDEX 0.000823 VARIANCE 0.151602

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
				FITTED RANGE AGE 0.5 TO 84.5					
0.0	265367125.	39573.	433086.	0.00014913	0.00163203	1.00000000	1.00000000	0.00	0.00000000
0.5	261026931.	166203.	826455.	0.00063673	0.00316617	0.99985087	0.99836797	0.81	0.00645578
1.5	250291296.	499920.	747545.	0.00199735	0.00298670	0.99921424	0.99520697	2.43	0.01949371
2.5	215930626.	207621.	610865.	0.00096152	0.00282898	0.99721846	0.99223459	4.04	0.03274869
3.5	211177853.	396598.	568705.	0.00187803	0.00269302	0.99625962	0.98942757	5.66	0.04619548
4.5	210479074.	689421.	542783.	0.00327548	0.00257880	0.99438861	0.98676303	7.28	0.05980977
5.5	205211027.	444476.	510221.	0.00216595	0.00248632	0.99113151	0.98421837	8.89	0.07356783
6.5	203104363.	1183290.	490618.	0.00582602	0.00241560	0.98898477	0.98177128	10.51	0.08744681
7.5	200705118.	353273.	474993.	0.00176016	0.00236662	0.98322293	0.97939972	12.13	0.10142464
8.5	197267395.	1217472.	461486.	0.00617168	0.00233939	0.98149230	0.97708185	13.74	0.11548019
9.5	191460483.	445828.	446851.	0.00232856	0.00233391	0.97543484	0.97479607	15.36	0.12959302
10.5	174650845.	443785.	410460.	0.00254098	0.00235018	0.97316347	0.97252099	16.98	0.14374372
11.5	159477319.	1166373.	380862.	0.00731372	0.00238819	0.97069068	0.97023539	18.59	0.15791368
12.5	130274871.	489723.	318907.	0.00375915	0.00244795	0.96359132	0.96791829	20.21	0.17208511
13.5	117186417.	305339.	296418.	0.00260558	0.00252946	0.95996903	0.96554887	21.83	0.18624126
14.5	115954946.	221679.	305277.	0.00191177	0.00263272	0.95746775	0.96310655	23.44	0.20036617
15.5	113946237.	241578.	314232.	0.00212011	0.00275772	0.95563730	0.96057096	25.06	0.21444474
16.5	107401825.	397679.	311946.	0.00370272	0.00290448	0.95361124	0.95792197	26.68	0.22846275
17.5	103865238.	292156.	319176.	0.00281284	0.00307298	0.95008029	0.95513971	28.29	0.24240681
18.5	100035843.	703164.	326440.	0.00702912	0.00326323	0.94740787	0.95220459	29.91	0.25626445
19.5	96940557.	230985.	336890.	0.00238275	0.00347522	0.94074842	0.94909733	31.53	0.27002400
20.5	83440449.	275087.	309478.	0.00329681	0.00370897	0.93850686	0.94579900	33.14	0.28367448
21.5	79956711.	410298.	316985.	0.00513150	0.00396446	0.93541278	0.94229106	34.76	0.29720587
22.5	79461723.	309244.	337053.	0.00389174	0.00424170	0.93061271	0.93855539	36.38	0.31060874
23.5	78731591.	322493.	357496.	0.00409611	0.00454069	0.92699101	0.93457431	37.99	0.32387453
24.5	77478576.	172955.	376656.	0.00223229	0.00486143	0.92319396	0.93033070	39.61	0.33699531
25.5	69468714.	257553.	361509.	0.00370747	0.00520391	0.92113311	0.92580797	41.23	0.34996391
26.5	67255038.	480381.	374486.	0.00714268	0.00556814	0.91771804	0.92099015	42.85	0.36277376
27.5	63891147.	187910.	380416.	0.00294110	0.00595412	0.91116308	0.91586195	44.46	0.37541897
28.5	61210494.	248427.	389412.	0.00405857	0.00636185	0.90848326	0.91040879	46.08	0.38789428
29.5	58656880.	124557.	398358.	0.00212348	0.00679132	0.90479612	0.90461691	47.70	0.40019495
30.5	54278869.	242132.	393117.	0.00446089	0.00724255	0.90287480	0.89847337	49.31	0.41231690
31.5	51457539.	439696.	397021.	0.00854483	0.00771552	0.89884718	0.89196613	50.93	0.42425645

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 61.850640 FIT INDEX 0.000823 VARIANCE 0.151602

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	47833259.	363534.	392722.	0.00760003	0.00821024	0.89116668	0.88508415	52.55	0.43601059
33.5	44228878.	223728.	385972.	0.00505841	0.00872670	0.88439379	0.87781740	54.16	0.44757667
34.5	42534382.	180440.	394077.	0.00424222	0.00926492	0.87992016	0.87015695	55.78	0.45895254
35.5	40816642.	312267.	401019.	0.00765048	0.00982488	0.87618735	0.86209502	57.40	0.47013649
36.5	38326424.	263747.	398847.	0.00688160	0.01040659	0.86948409	0.85362504	59.01	0.48112718
37.5	34801424.	198966.	383165.	0.00571718	0.01101005	0.86350065	0.84474172	60.63	0.49192368
38.5	31553825.	275509.	367137.	0.00873140	0.01163525	0.85856386	0.83544107	62.25	0.50252545
39.5	29120484.	256564.	357664.	0.00881043	0.01228220	0.85106740	0.82572051	63.86	0.51293222
40.5	26692515.	196093.	345692.	0.00734637	0.01295091	0.84356913	0.81557884	65.48	0.52314406
41.5	24781376.	223791.	338052.	0.00903061	0.01364136	0.83737196	0.80501635	67.10	0.53316135
42.5	23353590.	228811.	335207.	0.00979768	0.01435355	0.82980998	0.79403484	68.71	0.54298474
43.5	19327327.	220458.	291601.	0.01140654	0.01508750	0.82167977	0.78263762	70.33	0.55261512
44.5	18531031.	207767.	293591.	0.01121184	0.01584319	0.81230724	0.77082958	71.95	0.56205364
45.5	17498539.	1231370.	290837.	0.07036987	0.01662063	0.80319978	0.75861718	73.56	0.57130161
46.5	15208268.	197148.	264925.	0.01296321	0.01741982	0.74667871	0.74600848	75.18	0.58036056
47.5	14097503.	196590.	257149.	0.01394502	0.01824075	0.73699936	0.73301315	76.80	0.58923221
48.5	13666514.	66132.	260804.	0.00483898	0.01908344	0.72672189	0.71964243	78.41	0.59791846
49.5	12903845.	572181.	257404.	0.04434190	0.01994787	0.72320529	0.70590918	80.03	0.60642135
50.5	11644034.	141335.	242592.	0.01213798	0.02083405	0.69113700	0.69182780	81.65	0.61474303
51.5	8783563.	413345.	190972.	0.04705892	0.02174198	0.68274799	0.67741422	83.27	0.62288577
52.5	6045726.	889482.	137067.	0.14712575	0.02267165	0.65061861	0.66268590	84.88	0.63085200
53.5	3233732.	115539.	76391.	0.03572931	0.02362308	0.55489585	0.64766171	86.50	0.63864418
54.5	2826143.	64723.	69513.	0.02290153	0.02459625	0.53506981	0.63236195	88.12	0.64626489
55.5	2677828.	117678.	68529.	0.04394532	0.02559117	0.52281589	0.61680822	89.73	0.65371678
56.5	3025065.	71013.	80490.	0.02347487	0.02660783	0.49984058	0.60102338	91.35	0.66100253
57.5	2814890.	36088.	77821.	0.01282039	0.02764625	0.48810689	0.58503145	92.97	0.66812495
58.5	2625502.	23464.	75369.	0.00893696	0.02870641	0.48184917	0.56885752	94.58	0.67508681
59.5	2475436.	50004.	73739.	0.02020008	0.02978832	0.47754290	0.55252767	96.20	0.68189095
60.5	2333721.	29214.	72093.	0.01251821	0.03089198	0.46789650	0.53606880	97.82	0.68854025
61.5	2220965.	17865.	71109.	0.00804380	0.03201738	0.46203927	0.51950857	99.43	0.69503762
62.5	2176711.	17161.	72190.	0.00788391	0.03316454	0.45832272	0.50287526	101.05	0.70138592
63.5	2059526.	17981.	70711.	0.00873065	0.03433344	0.45470935	0.48619764	102.67	0.70758810
64.5	1760945.	8765.	62556.	0.00497744	0.03552409	0.45073944	0.46950480	104.28	0.71364704

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 61.850640 FIT INDEX 0.000823 VARIANCE 0.151602

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
65.5	1587693.	36875.	58326.	0.02322552	0.03673649	0.44849591	0.45282607	105.90	0.71956566
66.5	1522174.	51292.	57798.	0.03369654	0.03797063	0.43807936	0.43619083	107.52	0.72534689
67.5	1457595.	27742.	57176.	0.01903272	0.03922652	0.42331760	0.41962839	109.13	0.73099356
68.5	1393898.	32406.	56459.	0.02324847	0.04050416	0.41526071	0.40316783	110.75	0.73650859
69.5	1306536.	3330.	54618.	0.00254872	0.04180355	0.40560653	0.38683785	112.37	0.74189480
70.5	1216499.	9860.	52461.	0.00810523	0.04312469	0.40457276	0.37066666	113.98	0.74715503
71.5	986673.	1211.	43875.	0.00122736	0.04446757	0.40129360	0.35468177	115.60	0.75229206
72.5	953451.	4897.	43699.	0.00513608	0.04583221	0.40080107	0.33890993	117.22	0.75730868
73.5	924876.	3603.	43671.	0.00389566	0.04721859	0.39874252	0.32337694	118.83	0.76220761
74.5	861440.	11386.	41889.	0.01321740	0.04862671	0.39718916	0.30810754	120.45	0.76699156
75.5	790464.	51144.	39568.	0.06470124	0.05005659	0.39193935	0.29312528	122.07	0.77166316
76.5	737027.	170524.	37963.	0.23136737	0.05150821	0.36658039	0.27845243	123.69	0.77622507
77.5	500221.	37444.	26503.	0.07485491	0.05298158	0.28176565	0.26410985	125.30	0.78067987
78.5	461946.	2587.	25165.	0.00560022	0.05447670	0.26067410	0.25011689	126.92	0.78503010
79.5	456934.	0.	25585.	0.00000000	0.05599357	0.25921427	0.23649134	128.54	0.78927827
80.5	446453.	22186.	25685.	0.04969392	0.05753218	0.25921427	0.22324935	130.15	0.79342683
81.5	410883.	45123.	24280.	0.10981958	0.05909255	0.24633290	0.21040533	131.77	0.79747821
82.5	358066.	25190.	21726.	0.07035016	0.06067466	0.21928072	0.19797194	133.39	0.80143477
83.5	308878.	0.	19236.	0.00000000	0.06227852	0.20385429	0.18596006	135.00	0.80529884
84.5	188251.	84988.	12030.	0.45146108	0.06390412	0.20385429	0.17437874	136.62	0.80907269
TOTAL (EXCEPT AGE 0)	21617830.	21617830.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 61.850640 FIT INDEX 0.000823 VARIANCE 0.151602

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
85.5					0.06555148		0.16323522	138.24	0.81275857
86.5					0.06722058		0.15253491	139.85	0.81635867
87.5					0.06891143		0.14228143	141.47	0.81987515
88.5					0.07062402		0.13247661	143.09	0.82331010
89.5					0.07235837		0.12312058	144.70	0.82666558
90.5					0.07411446		0.11421178	146.32	0.82994361
91.5					0.07589230		0.10574703	147.94	0.83314617
92.5					0.07769189		0.09772165	149.55	0.83627518
93.5					0.07951323		0.09012947	151.17	0.83933254
94.5					0.08135631		0.08296298	152.79	0.84232010
95.5					0.08322115		0.07621342	154.40	0.84523967
96.5					0.08510773		0.06987085	156.02	0.84809302
97.5					0.08701605		0.06392430	157.64	0.85088188
98.5					0.08894613		0.05836186	159.25	0.85360798
99.5					0.09089795		0.05317080	160.87	0.85627296
100.5					0.09287152		0.04833768	162.49	0.85887847
101.5					0.09486684		0.04384849	164.11	0.86142610
102.5					0.09688391		0.03968872	165.72	0.86391746
103.5					0.09892273		0.03584352	167.34	0.86635408
104.5					0.10098329		0.03229778	168.96	0.86873753
105.5					0.10306560		0.02903625	170.57	0.87106932
106.5					0.10516966		0.02604361	172.19	0.87335097
107.5					0.10729546		0.02330461	173.81	0.87558396
108.5					0.10944302		0.02080413	175.42	0.87776983
109.5					0.11161232		0.01852727	177.04	0.87991007
110.5					0.11380337		0.01645939	178.66	0.88200623
111.5					0.11601617		0.01458626	180.27	0.88405984
112.5					0.11825071		0.01289402	181.89	0.88607252
113.5					0.12050701		0.01136929	183.51	0.88804591
114.5					0.12278505		0.00999921	185.12	0.88998174
115.5					0.12508484		0.00877146	186.74	0.89188183
116.5					0.12740637		0.00767428	188.36	0.89374813
117.5					0.12974966		0.00669653	189.97	0.89558274

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 61.850640 FIT INDEX 0.000823 VARIANCE 0.151602

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
118.5					0.13211469		0.00582766	191.59	0.89738794
119.5					0.13450147		0.00505774	193.21	0.89916630
120.5					0.13691000		0.00437746	194.82	0.90092066
121.5					0.13934028		0.00377815	196.44	0.90265426
122.5					0.14179230		0.00325170	198.06	0.90437082
123.5					0.14426607		0.00279063	199.67	0.90607466
124.5					0.14676159		0.00238804	201.29	0.90777087
125.5					0.14927886		0.00203757	202.91	0.90946543
126.5					0.15181787		0.00173340	204.52	0.91116554
127.5					0.15437864		0.00147024	206.14	0.91287982
128.5					0.15696115		0.00124327	207.76	0.91461877
129.5					0.15956541		0.00104812	209.38	0.91639517
130.5					0.16219141		0.00088088	210.99	0.91822472
131.5					0.16483917		0.00073801	212.61	0.92012680
132.5					0.16750867		0.00061635	214.23	0.92212545
133.5					0.17019992		0.00051311	215.84	0.92425061
134.5					0.17291292		0.00042578	217.46	0.92653977
135.5					0.17564766		0.00035216	219.08	0.92904003
136.5					0.17840416		0.00029030	220.69	0.93181081
137.5					0.18118240		0.00023851	222.31	0.93492733
138.5					0.18398239		0.00019530	223.93	0.93848525
139.5					0.18680412		0.00015936	225.54	0.94260653
140.5					0.18964761		0.00012959	227.16	0.94744734
141.5					0.19251284		0.00010502	228.78	0.95320827
142.5					0.19539982		0.00008480	230.39	0.96014795
143.5					0.19830855		0.00006823	232.01	0.96860095
144.5					0.20123903		0.00005470	233.63	0.97900166
145.5							0.00004369	235.24	0.99191601

EQUIVALENT H CURVE IS 2.49

EQUIVALENT L CURVE IS 2.00

EQUIVALENT R CURVE IS 2.00

EQUIVALENT S CURVE IS 1.00

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 61.273680 FIT INDEX 0.000826 VARIANCE 0.141785

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	265367125.	39573.	334546.	0.00014913	0.00126069	1.00000000	1.00000000	0.00	0.00000000
0.5	261026931.	166203.	656038.	0.00063673	0.00251330	0.99985087	0.99873931	0.82	0.00690294
1.5	250291296.	499920.	625987.	0.00199735	0.00250103	0.99921424	0.99622918	2.45	0.02074152
2.5	215930626.	207621.	538629.	0.00096152	0.00249445	0.99721846	0.99373758	4.08	0.03462693
3.5	211177853.	396598.	526706.	0.00187803	0.00249414	0.99625962	0.99125875	5.71	0.04855344
4.5	210479074.	689421.	526335.	0.00327548	0.00250065	0.99438861	0.98878641	7.34	0.06251512
5.5	205211027.	444476.	516020.	0.00216595	0.00251458	0.99113151	0.98631380	8.98	0.07650557
6.5	203104363.	1183290.	515174.	0.00582602	0.00253650	0.98898477	0.98383364	10.61	0.09051829
7.5	200705118.	353273.	515205.	0.00176016	0.00256697	0.98322293	0.98133815	12.24	0.10454650
8.5	197267395.	1217472.	514194.	0.00617168	0.00260658	0.98149230	0.97881908	13.87	0.11858320
9.5	191460483.	445828.	508501.	0.00232856	0.00265591	0.97543484	0.97626770	15.50	0.13262129
10.5	174650845.	443785.	474267.	0.00254098	0.00271552	0.97316347	0.97367483	17.14	0.14665344
11.5	159477319.	1166373.	444302.	0.00731372	0.00278599	0.97069068	0.97103079	18.77	0.16067230
12.5	130274871.	489723.	373615.	0.00375915	0.00286790	0.96359132	0.96832551	20.40	0.17467043
13.5	117186417.	305339.	347085.	0.00260558	0.00296182	0.95996903	0.96554846	22.03	0.18864037
14.5	115954946.	221679.	355787.	0.00191177	0.00306832	0.95746775	0.96268868	23.66	0.20257462
15.5	113946237.	241578.	363259.	0.00212011	0.00318799	0.95563730	0.95973484	25.30	0.21646566
16.5	107401825.	397679.	356724.	0.00370272	0.00332139	0.95361124	0.95667521	26.93	0.23030611
17.5	103865238.	292156.	360320.	0.00281284	0.00346911	0.95008029	0.95349772	28.56	0.24408857
18.5	100035843.	703164.	363302.	0.00702912	0.00363171	0.94740787	0.95018993	30.19	0.25780575
19.5	96940557.	230985.	369322.	0.00238275	0.00380978	0.94074842	0.94673911	31.82	0.27145048
20.5	83440449.	275087.	334086.	0.00329681	0.00400388	0.93850686	0.94313224	33.46	0.28501568
21.5	79956711.	410298.	336985.	0.00513150	0.00421460	0.93541278	0.93935605	35.09	0.29849445
22.5	79461723.	309244.	353009.	0.00389174	0.00444250	0.93061271	0.93539705	36.72	0.31188017
23.5	78731591.	322493.	369107.	0.00409611	0.00468816	0.92699101	0.93124155	38.35	0.32516621
24.5	77478576.	172955.	383687.	0.00223229	0.00495216	0.92319396	0.92687574	39.98	0.33834621
25.5	69468714.	257553.	363674.	0.00370747	0.00523508	0.92113311	0.92228569	41.62	0.35141412
26.5	67255038.	480381.	372423.	0.00714268	0.00553748	0.91771804	0.91745746	43.25	0.36436404
27.5	63891147.	187910.	374399.	0.00294110	0.00585994	0.91116308	0.91237705	44.88	0.37719028
28.5	61210494.	248427.	379692.	0.00405857	0.00620305	0.90848326	0.90703058	46.51	0.38988745
29.5	58656880.	124557.	385221.	0.00212348	0.00656736	0.90479612	0.90140422	48.14	0.40245045
30.5	54278869.	242132.	377426.	0.00446089	0.00695346	0.90287480	0.89548438	49.78	0.41487437
31.5	51457539.	439696.	378827.	0.00854483	0.00736193	0.89884718	0.88925766	51.41	0.42715460

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 61.273680 FIT INDEX 0.000826 VARIANCE 0.141785

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 84.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	47833259.	363534.	372781.	0.00760003	0.00779333	0.89116668	0.88271100	53.04	0.43928681
33.5	44228878.	223728.	364811.	0.00505841	0.00824825	0.88439379	0.87583174	54.67	0.45126699
34.5	42534382.	180440.	371208.	0.00424222	0.00872725	0.87992016	0.86860766	56.30	0.46309134
35.5	40816642.	312267.	376775.	0.00765048	0.00923092	0.87618735	0.86102710	57.94	0.47475643
36.5	38326424.	263747.	374059.	0.00688160	0.00975983	0.86948409	0.85307903	59.57	0.48625902
37.5	34801424.	198966.	358961.	0.00571718	0.01031455	0.86350065	0.84475313	61.20	0.49759622
38.5	31553825.	275509.	343800.	0.00873140	0.01089566	0.85856386	0.83603988	62.83	0.50876541
39.5	29120484.	256564.	334994.	0.00881043	0.01150373	0.85106740	0.82693067	64.46	0.51976425
40.5	26692515.	196093.	324029.	0.00734637	0.01213934	0.84356913	0.81741789	66.10	0.53059065
41.5	24781376.	223791.	317278.	0.00903061	0.01280306	0.83737196	0.80749498	67.73	0.54124279
42.5	23353590.	228811.	315168.	0.00979768	0.01349548	0.82980998	0.79715657	69.36	0.55171917
43.5	19327327.	220458.	274780.	0.01140654	0.01421715	0.82167977	0.78639856	70.99	0.56201852
44.5	18531031.	207767.	277385.	0.01121184	0.01496867	0.81230724	0.77521821	72.62	0.57213976
45.5	17498539.	1231370.	275612.	0.07036987	0.01575060	0.80319978	0.76361423	74.26	0.58208218
46.5	15208268.	197148.	251902.	0.01296321	0.01656351	0.74667871	0.75158685	75.89	0.59184520
47.5	14097503.	196590.	245409.	0.01394502	0.01740800	0.73699936	0.73913793	77.52	0.60142852
48.5	13666514.	66132.	249887.	0.00483898	0.01828462	0.72672189	0.72627102	79.15	0.61083205
49.5	12903845.	572181.	247676.	0.04434190	0.01919395	0.72320529	0.71299143	80.79	0.62005593
50.5	11644034.	141335.	234471.	0.01213798	0.02013658	0.69113700	0.69930631	82.42	0.62910050
51.5	8783563.	413345.	185448.	0.04705892	0.02111307	0.68274799	0.68522467	84.05	0.63796629
52.5	6045726.	889482.	133756.	0.14712575	0.02212400	0.65061861	0.67075747	85.68	0.64665400
53.5	3233732.	115539.	74925.	0.03572931	0.02316994	0.55489585	0.65591763	87.31	0.65516455
54.5	2826143.	64723.	68538.	0.02290153	0.02425148	0.53506981	0.64072006	88.95	0.66349898
55.5	2677828.	117678.	67934.	0.04394532	0.02536917	0.52281589	0.62518165	90.58	0.67165855
56.5	3025065.	71013.	80236.	0.02347487	0.02652361	0.49984058	0.60932131	92.21	0.67964459
57.5	2814890.	36088.	78016.	0.01282039	0.02771537	0.48810689	0.59315991	93.84	0.68745866
58.5	2625502.	23464.	75995.	0.00893696	0.02894501	0.48184917	0.57672026	95.47	0.69510236
59.5	2475436.	50004.	74791.	0.02020008	0.03021312	0.47754290	0.56002709	97.11	0.70257749
60.5	2333721.	29214.	73560.	0.01251821	0.03152026	0.46789650	0.54310693	98.74	0.70988592
61.5	2220965.	17865.	72997.	0.00804380	0.03286703	0.46203927	0.52598805	100.37	0.71702964
62.5	2176711.	17161.	74561.	0.00788391	0.03425398	0.45832272	0.50870039	102.00	0.72401070
63.5	2059526.	17981.	73487.	0.00873065	0.03568170	0.45470935	0.49127538	103.63	0.73083131
64.5	1760945.	8765.	65420.	0.00497744	0.03715076	0.45073944	0.47374584	105.27	0.73749369

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 61.273680 FIT INDEX 0.000826 VARIANCE 0.141785

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 84.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
65.5	1587693.	36875.	61383.	0.02322552	0.03866173	0.44849591	0.45614582	106.90	0.74400017
66.5	1522174.	51292.	61215.	0.03369654	0.04021520	0.43807936	0.43851043	108.53	0.75035312
67.5	1457595.	27742.	60945.	0.01903272	0.04181173	0.42331760	0.42087565	110.16	0.75655499
68.5	1393898.	32406.	60568.	0.02324847	0.04345190	0.41526071	0.40327811	111.79	0.76260826
69.5	1306536.	3330.	58972.	0.00254872	0.04513629	0.40560653	0.38575491	113.43	0.76851546
70.5	1216499.	9860.	57012.	0.00810523	0.04686546	0.40457276	0.36834337	115.06	0.77427917
71.5	986673.	1211.	47992.	0.00122736	0.04864001	0.40129360	0.35108079	116.69	0.77990197
72.5	953451.	4897.	48112.	0.00513608	0.05046049	0.40080107	0.33400421	118.32	0.78538648
73.5	924876.	3603.	48396.	0.00389566	0.05232749	0.39874252	0.31715020	119.95	0.79073535
74.5	861440.	11386.	46726.	0.01321740	0.05424159	0.39718916	0.30055452	121.59	0.79595121
75.5	790464.	51144.	44427.	0.06470124	0.05620334	0.39193935	0.28425197	123.22	0.80103673
76.5	737027.	170524.	42905.	0.23136737	0.05821334	0.36658039	0.26827606	124.85	0.80599457
77.5	500221.	37444.	30149.	0.07485491	0.06027216	0.28176565	0.25265881	126.48	0.81082739
78.5	461946.	2587.	28816.	0.00560022	0.06238037	0.26067410	0.23743052	128.11	0.81553786
79.5	456934.	0.	29490.	0.00000000	0.06453854	0.25921427	0.22261952	129.75	0.82012861
80.5	446453.	22186.	29800.	0.04969392	0.06674726	0.25921427	0.20825198	131.38	0.82460228
81.5	410883.	45123.	28354.	0.10981958	0.06900709	0.24633290	0.19435173	133.01	0.82896148
82.5	358066.	25190.	25537.	0.07035016	0.07131861	0.21928072	0.18094008	134.64	0.83320882
83.5	308878.	0.	22759.	0.00000000	0.07368240	0.20385429	0.16803569	136.27	0.83734687
84.5	188251.	84988.	14326.	0.45146108	0.07609903	0.20385429	0.15565441	137.91	0.84137821
TOTAL (EXCEPT AGE 0)		21617830.	21617840.						

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 61.273680 FIT INDEX 0.000826 VARIANCE 0.141785

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 84.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
85.5					0.07856908		0.14380926	139.54	0.84530534
86.5					0.08109312		0.13251030	141.17	0.84913078
87.5					0.08367173		0.12176463	142.80	0.85285698
88.5					0.08630548		0.11157637	144.43	0.85648641
89.5					0.08899495		0.10194672	146.07	0.86002145
90.5					0.09174071		0.09287397	147.70	0.86346449
91.5					0.09454334		0.08435365	149.33	0.86681788
92.5					0.09740341		0.07637857	150.96	0.87008391
93.5					0.10032150		0.06893904	152.59	0.87326488
94.5					0.10329818		0.06202297	154.23	0.87636302
95.5					0.10633403		0.05561611	155.86	0.87938054
96.5					0.10942962		0.04970223	157.49	0.88231964
97.5					0.11258553		0.04426333	159.12	0.88518246
98.5					0.11580233		0.03927992	160.75	0.88797115
99.5					0.11908060		0.03473121	162.39	0.89068780
100.5					0.12242091		0.03059540	164.02	0.89333451
101.5					0.12582384		0.02684988	165.65	0.89591339
102.5					0.12928996		0.02347153	167.28	0.89842651
103.5					0.13281986		0.02043690	168.91	0.90087597
104.5					0.13641409		0.01772247	170.55	0.90326390
105.5					0.14007325		0.01530488	172.18	0.90559245
106.5					0.14379790		0.01316107	173.81	0.90786385
107.5					0.14758861		0.01126854	175.44	0.91008042
108.5					0.15144597		0.00960543	177.07	0.91224460
109.5					0.15537055		0.00815073	178.71	0.91435903
110.5					0.15936292		0.00688434	180.34	0.91642656
111.5					0.16342366		0.00578723	181.97	0.91845037
112.5					0.16755335		0.00484146	183.60	0.92043408
113.5					0.17175255		0.00403026	185.23	0.92238188
114.5					0.17602185		0.00333805	186.87	0.92429868
115.5					0.18036182		0.00275048	188.50	0.92619045
116.5					0.18477303		0.00225440	190.13	0.92806448
117.5					0.18925606		0.00183785	191.76	0.92992986

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 61.273680 FIT INDEX 0.000826 VARIANCE 0.141785

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
118.5					0.19381149		0.00149002	193.39	0.93179812
119.5					0.19843989		0.00120124	195.03	0.93368401
120.5					0.20314183		0.00096287	196.66	0.93560676
121.5					0.20791788		0.00076727	198.29	0.93759156
122.5					0.21276864		0.00060774	199.92	0.93967184
123.5					0.21769466		0.00047843	201.55	0.94189237
124.5					0.22269653		0.00037428	203.19	0.94431353
125.5					0.22777482		0.00029093	204.82	0.94701750
126.5					0.23293010		0.00022466	206.45	0.95011696
127.5					0.23816296		0.00017233	208.08	0.95376750
128.5					0.24347396		0.00013129	209.71	0.95818566
129.5					0.24886368		0.00009932	211.35	0.96367489
130.5					0.25433269		0.00007461	212.98	0.97066360
131.5					0.25988158		0.00005563	214.61	0.97976099
132.5							0.00004117	216.24	0.99183989

EQUIVALENT H CURVE IS 2.59

EQUIVALENT L CURVE IS 3.00

EQUIVALENT R CURVE IS 2.00

EQUIVALENT S CURVE IS 1.00

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37600 Mains Steel

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = -0.27857358E-04 0.30012709E-03 (X)

QUADRATIC YEST(I) = 0.32640533E-02 -0.20121212E-03 (X) 0.10873918E-04 (X^2)

CUBIC YEST(I) = 0.25213818E-02 -0.17399380E-04 (X) 0.24115743E-05 (X^2) 0.95845776E-07 (X^3)

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37600 Mains Steel

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	54.99	0.001471	328.25	1.92	1.50	0.00	1.00
1984	1988	48.70	0.002076	317.25	2.06	2.00	0.50	1.00
1985	1989	48.13	0.002302	316.85	2.07	2.00	0.50	1.00
1986	1990	49.76	0.002251	312.47	2.13	2.00	0.50	1.50
1987	1991	45.33	0.003579	303.33	2.27	2.00	0.50	1.50
1988	1992	46.26	0.003558	308.03	2.19	2.00	0.50	1.50
1989	1993	49.98	0.002731	313.10	2.12	2.00	0.50	1.50
1990	1994	51.52	0.002687	315.44	2.10	2.00	0.50	1.50
1991	1995	53.21	0.002629	326.09	1.94	1.50	0.00	1.00
1992	1996	70.41	0.000850	361.44	1.49	1.00	-0.50	0.50
1993	1997	81.52	0.000749	366.18	1.44	1.00	-0.50	0.50
1994	1998	96.56	0.000618	382.65	1.25	0.50	SC	0.50
1995	1999	111.56	0.000451	357.19	1.07	0.00	SC	0.50
1996	2000	108.13	0.000253	364.84	1.45	1.00	-0.50	0.50
1997	2001	117.63	0.000232	338.76	1.43	1.00	-0.50	0.50
1998	2002	110.24	0.000347	361.48	1.40	0.50	-0.50	0.50
1999	2003	90.22	0.000360	377.42	1.31	0.50	SC	0.50
2000	2004	87.38	0.000404	375.95	1.32	0.50	SC	0.50
2001	2005	69.33	0.001298	372.85	1.36	0.50	SC	0.50
2002	2006	71.94	0.001094	370.43	1.38	0.50	SC	0.50
2003	2007	73.56	0.001062	375.87	1.32	0.50	SC	0.50
2004	2008	82.00	0.001070	373.79	1.35	0.50	SC	0.50
2005	2009	85.20	0.001135	370.29	1.39	0.50	SC	0.50
2006	2010	115.69	0.000533	344.47	1.08	0.50	SC	0.50
2007	2011	88.83	0.001191	357.43	1.54	1.00	-0.50	0.50

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37600 Mains Steel

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	88.83	0.001191	357.43	1.54	1.00	-0.50	0.50
2006	2011	93.70	0.001091	359.11	1.52	1.00	-0.50	0.50
2005	2011	81.78	0.001248	358.89	1.52	1.00	-0.50	0.50
2004	2011	82.45	0.001085	360.84	1.51	1.00	-0.50	0.50
2003	2011	80.43	0.000960	366.13	1.44	1.00	-0.50	0.50
2002	2011	80.86	0.000916	365.47	1.45	1.00	-0.50	0.50
2001	2011	82.69	0.000882	367.03	1.42	1.00	-0.50	0.50
2000	2011	83.56	0.000848	365.62	1.44	1.00	-0.50	0.50
1999	2011	84.50	0.000824	366.26	1.44	1.00	-0.50	0.50
1998	2011	85.65	0.000802	366.02	1.44	1.00	-0.50	0.50
1997	2011	86.18	0.000783	364.92	1.45	1.00	-0.50	0.50
1996	2011	86.46	0.000766	366.06	1.43	1.00	-0.50	0.50
1995	2011	86.68	0.000758	369.75	1.39	0.50	SC	0.50
1994	2011	86.02	0.000747	367.96	1.42	1.00	-0.50	0.50
1993	2011	85.00	0.000733	366.46	1.44	1.00	-0.50	0.50
1992	2011	83.44	0.000717	364.92	1.45	1.00	-0.50	0.50
1991	2011	77.97	0.000836	358.46	1.53	1.00	-0.50	0.50
1990	2011	77.52	0.000826	356.66	1.55	1.00	-0.50	0.50
1989	2011	76.94	0.000813	355.48	1.56	1.00	-0.50	0.50
1988	2011	74.86	0.000855	353.31	1.59	1.00	-0.50	0.50
1987	2011	73.82	0.000890	351.53	1.62	1.00	-0.50	0.50
1986	2011	72.85	0.000897	350.74	1.63	1.00	-0.50	0.50
1985	2011	72.38	0.000886	351.64	1.62	1.00	-0.50	0.50
1984	2011	72.46	0.000870	351.22	1.62	1.00	-0.50	0.50
1983	2011	72.60	0.000864	350.54	1.62	1.00	-0.50	0.50

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37600 Mains Steel

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	52.34	0.001468	255.05	2.39	2.00	1.00	1.50
1984	1988	46.95	0.002020	231.10	2.70	3.00	1.50	2.00
1985	1989	46.54	0.002240	228.83	2.75	3.00	1.50	2.00
1986	1990	47.81	0.002139	214.38	3.05	3.00	2.00	2.50
1987	1991	45.25	0.003411	204.41	3.36	3.00	2.00	3.00
1988	1992	45.53	0.003431	209.74	3.21	3.00	2.00	2.50
1989	1993	47.76	0.002617	212.52	3.17	3.00	2.00	2.50
1990	1994	48.59	0.002573	210.96	3.20	3.00	2.00	2.50
1991	1995	48.78	0.002536	218.33	2.85	3.00	1.50	2.50
1992	1996	58.45	0.000800	238.68	2.38	2.00	1.00	1.50
1993	1997	64.38	0.000718	236.86	2.41	2.00	1.00	1.50
1994	1998	73.21	0.000608	246.56	2.23	2.00	0.50	1.50
1995	1999	86.07	0.000451	267.81	1.93	1.50	0.00	1.00
1996	2000	100.60	0.000254	310.63	1.74	1.50	0.00	0.50
1997	2001	93.21	0.000229	259.09	2.21	2.00	0.50	1.50
1998	2002	83.53	0.000337	246.01	2.36	2.00	1.00	1.50
1999	2003	82.75	0.000361	305.15	1.69	1.00	-0.50	0.50
2000	2004	77.23	0.000403	284.23	1.86	1.50	0.00	1.00
2001	2005	60.98	0.001292	258.29	2.09	2.00	0.50	1.00
2002	2006	62.81	0.001086	257.11	2.11	2.00	0.50	1.50
2003	2007	64.52	0.001059	264.25	1.98	1.50	0.00	1.00
2004	2008	66.50	0.001053	238.34	2.30	2.00	0.50	1.50
2005	2009	67.61	0.001116	232.97	2.39	2.00	1.00	1.50
2006	2010	84.05	0.000527	248.07	2.16	2.00	0.50	1.50
2007	2011	68.28	0.001153	218.94	2.72	3.00	1.50	2.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37600 Mains Steel

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	68.28	0.001153	218.94	2.72	3.00	1.50	2.00
2006	2011	70.27	0.001058	218.45	2.74	3.00	1.50	2.00
2005	2011	65.44	0.001212	223.88	2.58	3.00	1.00	2.00
2004	2011	65.85	0.001046	225.53	2.58	3.00	1.00	2.00
2003	2011	65.62	0.000929	233.92	2.42	2.00	1.00	1.50
2002	2011	65.90	0.000885	234.46	2.43	2.00	1.00	1.50
2001	2011	66.68	0.000852	233.22	2.43	2.00	1.00	1.50
2000	2011	67.49	0.000822	234.84	2.44	2.00	1.00	1.50
1999	2011	67.98	0.000797	234.63	2.44	2.00	1.00	1.50
1998	2011	68.50	0.000776	235.76	2.45	2.00	1.00	2.00
1997	2011	68.86	0.000758	235.97	2.45	2.00	1.00	2.00
1996	2011	69.10	0.000743	236.62	2.42	2.00	1.00	1.50
1995	2011	68.93	0.000735	237.19	2.39	2.00	1.00	1.50
1994	2011	68.50	0.000721	237.23	2.41	2.00	1.00	1.50
1993	2011	67.95	0.000704	236.22	2.43	2.00	1.00	1.50
1992	2011	67.33	0.000687	236.89	2.42	2.00	1.00	1.50
1991	2011	64.51	0.000800	234.85	2.47	2.00	1.00	2.00
1990	2011	64.20	0.000787	234.41	2.49	2.00	1.00	2.00
1989	2011	63.92	0.000773	233.90	2.50	2.00	1.00	2.00
1988	2011	62.72	0.000810	231.99	2.52	2.00	1.00	2.00
1987	2011	62.12	0.000842	231.02	2.54	2.00	1.00	2.00
1986	2011	61.77	0.000852	232.30	2.52	2.00	1.00	2.00
1985	2011	61.67	0.000844	234.30	2.49	2.00	1.00	2.00
1984	2011	61.74	0.000828	235.66	2.49	2.00	1.00	2.00
1983	2011	61.85	0.000823	235.24	2.49	2.00	1.00	2.00

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37600 Mains Steel

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	48.78	0.002551	216.27	2.85	3.00	1.50	2.50
1992	1996	57.55	0.000792	202.45	2.57	3.00	1.00	2.00
1993	1997	62.77	0.000716	201.54	2.65	3.00	1.00	2.00
1994	1998	71.06	0.000611	217.43	2.42	2.00	1.00	1.50
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	80.90	0.000339	220.65	2.55	3.00	1.00	2.00
1999	2003	72.76	0.000355	209.58	2.33	2.00	0.50	1.50
2000	2004	68.38	0.000377	196.69	2.49	2.00	1.00	2.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	75.98	0.000518	190.17	2.70	3.00	1.50	2.00
2007	2011	66.38	0.001117	177.02	3.19	3.00	2.00	2.50

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37600 Mains Steel

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	66.38	0.001117	177.02	3.19	3.00	2.00	2.50
2006	2011	67.92	0.001032	177.41	3.21	3.00	2.00	2.50
2005	2011	64.46	0.001213	197.79	2.78	3.00	1.50	2.00
2004	2011	64.65	0.001043	195.66	2.80	3.00	1.50	2.00
2003	2011	64.06	0.000923	199.03	2.65	3.00	1.50	2.00
2002	2011	64.11	0.000874	195.76	2.69	3.00	1.50	2.00
2001	2011	64.75	0.000843	196.90	2.69	3.00	1.50	2.00
2000	2011	65.37	0.000814	196.58	2.70	3.00	1.50	2.00
1999	2011	65.83	0.000791	198.24	2.70	3.00	1.50	2.00
1998	2011	66.32	0.000771	198.27	2.71	3.00	1.50	2.00
1997	2011	66.66	0.000754	198.76	2.72	3.00	1.50	2.00
1996	2011	66.77	0.000739	199.93	2.69	3.00	1.50	2.00
1995	2011	66.49	0.000729	199.27	2.67	3.00	1.50	2.00
1994	2011	66.25	0.000716	198.50	2.68	3.00	1.50	2.00
1993	2011	65.84	0.000698	199.71	2.69	3.00	1.50	2.00
1992	2011	65.33	0.000681	199.76	2.67	3.00	1.50	2.00
1991	2011	63.35	0.000800	206.01	2.64	3.00	1.00	2.00
1990	2011	63.13	0.000787	206.71	2.65	3.00	1.50	2.00
1989	2011	62.94	0.000773	207.34	2.65	3.00	1.00	2.00
1988	2011	62.07	0.000812	211.87	2.64	3.00	1.00	2.00
1987	2011	61.59	0.000845	213.52	2.64	3.00	1.00	2.00
1986	2011	61.29	0.000855	216.19	2.61	3.00	1.00	2.00
1985	2011	61.13	0.000847	216.75	2.59	3.00	1.00	2.00
1984	2011	61.19	0.000831	216.55	2.59	3.00	1.00	2.00
1983	2011	61.27	0.000826	216.24	2.59	3.00	1.00	2.00

Peoples Gas System
Net Salvage Analysis
Account - 376.00 - Mains Steel
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	1,634,371	(626,270)	(38)	0	0	(626,270)	(38)
2009	567,754	(1,559,848)	(275)	0	0	(1,559,848)	(275)
2008	788,094	(923,222)	(117)	3,709	0	(919,513)	(117)
2007	1,121,402	(484,426)	(43)	0	0	(484,426)	(43)
2006	399,265	(863,334)	(216)	(2,000)	(1)	(865,334)	(217)
2005	2,473,978	(713,685)	(29)	214,563	9	(499,122)	(20)
2004	824,732	(943,077)	(114)	3,807	0	(939,270)	(114)
2003	1,814,915	(384,752)	(21)	2,778	0	(381,974)	(21)
2002	757,736	(529,831)	(70)	1,500	0	(528,331)	(70)
2001	573,089	(115,141)	(20)	0	0	(115,141)	(20)
2000	324,671	(160,003)	(49)	0	0	(160,003)	(49)
1999	387,750	(153,574)	(40)	546	0	(153,028)	(39)
1998	286,318	(270,096)	(94)	1,082	0	(269,014)	(94)
1997	287,165	(273,474)	(95)	0	0	(273,474)	(95)
1996	661,804	(305,662)	(46)	0	0	(305,662)	(46)
1995	916,062	(429,056)	(47)	0	0	(429,056)	(47)
1994	409,778	(520,722)	(127)	2,925	1	(517,798)	(126)
1993	477,332	(523,810)	(110)	0	0	(523,810)	(110)
1992	797,476	(468,865)	(59)	0	0	(468,865)	(59)
1991	1,343,860	(463,572)	(34)	0	0	(463,572)	(34)
1990	416,907	(181,517)	(44)	0	0	(181,517)	(44)
1989	441,557	(142,859)	(32)	0	0	(142,859)	(32)
1988	884,959	(196,114)	(22)	0	0	(196,114)	(22)
1987	646,379	(586,376)	(91)	858	0	(585,518)	(91)
1986	752,938	(359,296)	(48)	0	0	(359,296)	(48)
1985	743,355	(208,173)	(28)	0	0	(208,173)	(28)
1984	227,739	(157,214)	(69)	22,978	10	(134,236)	(59)
1983	175,315	(91,313)	(52)	0	0	(91,313)	(52)
1982	0	0	0	0	0	0	0
	21,136,701	**(12,635,286)**	**(60)**	**252,746**	**1**	**(12,382,540)**	**(59)**

Peoples Gas System
Net Salvage Analysis
Account - 376.00 - Mains Steel
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	4,510,886	(4,457,100)	(99)	1,709	0	(4,455,391)	(99)
2009	5,350,493	(4,544,516)	(85)	216,272	4	(4,328,244)	(81)
2008	5,607,471	(3,927,745)	(70)	220,079	4	(3,707,666)	(66)
2007	6,634,292	(3,389,275)	(51)	219,148	3	(3,170,127)	(48)
2006	6,270,626	(3,434,680)	(55)	220,648	4	(3,214,032)	(51)
2005	6,444,449	(2,686,487)	(42)	222,648	3	(2,463,839)	(38)
2004	4,295,143	(2,132,805)	(50)	8,085	0	(2,124,719)	(49)
2003	3,858,161	(1,343,301)	(35)	4,824	0	(1,338,477)	(35)
2002	2,329,564	(1,228,644)	(53)	3,128	0	(1,225,516)	(53)
2001	1,858,994	(972,287)	(52)	1,628	0	(970,659)	(52)
2000	1,947,708	(1,162,809)	(60)	1,628	0	(1,161,181)	(60)
1999	2,539,099	(1,431,862)	(56)	1,628	0	(1,430,234)	(56)
1998	2,561,127	(1,799,011)	(70)	4,007	0	(1,795,004)	(70)
1997	2,752,141	(2,052,725)	(75)	2,925	0	(2,049,801)	(74)
1996	3,262,451	(2,248,117)	(69)	2,925	0	(2,245,192)	(69)
1995	3,944,508	(2,406,026)	(61)	2,925	0	(2,403,101)	(61)
1994	3,445,353	(2,158,487)	(63)	2,925	0	(2,155,562)	(63)
1993	3,477,132	(1,780,624)	(51)	0	0	(1,780,624)	(51)
1992	3,884,758	(1,452,927)	(37)	0	0	(1,452,927)	(37)
1991	3,733,661	(1,570,438)	(42)	858	0	(1,569,580)	(42)
1990	3,142,739	(1,466,162)	(47)	858	0	(1,465,304)	(47)
1989	3,469,188	(1,492,819)	(43)	858	0	(1,491,961)	(43)
1988	3,255,371	(1,507,174)	(46)	23,836	1	(1,483,338)	(46)
1987	2,545,727	(1,402,374)	(55)	23,836	1	(1,378,537)	(54)
1986	1,899,348	(815,998)	(43)	22,978	1	(793,020)	(42)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602. Mains Plastic

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -25.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	24933472.	0.012309	306897.	24626575.
2010	1.50	22006971.	0.036860	811172.	21195799.
2009	2.50	25445502.	0.061327	1560491.	23885011.
2008	3.50	9010457.	0.085691	772116.	8238341.
2007	4.50	8172856.	0.109954	898640.	7274216.
2006	5.50	6646825.	0.134089	891265.	5755560.
2005	6.50	10140749.	0.158090	1603148.	8537601.
2004	7.50	8331897.	0.181936	1515871.	6816026.
2003	8.50	10169110.	0.205625	2091019.	8078091.
2002	9.50	12001225.	0.229138	2749939.	9251286.
2001	10.50	21289542.	0.252457	5374701.	15914841.
2000	11.50	28250766.	0.275574	7785180.	20465586.
1999	12.50	19562499.	0.298473	5838879.	13723620.
1998	13.50	15314099.	0.321139	4917954.	10396145.
1997	14.50	8569593.	0.343560	2944173.	5625420.
1996	15.50	5487408.	0.365733	2006925.	3480483.
1995	16.50	7783179.	0.387635	3017034.	4766145.
1994	17.50	6713564.	0.409260	2747593.	3965971.
1993	18.50	6399377.	0.430603	2755591.	3643786.
1992	19.50	3410811.	0.451649	1540490.	1870321.
1991	20.50	3622147.	0.472390	1711067.	1911080.
1990	21.50	7567932.	0.492819	3729624.	3838308.
1989	22.50	4620278.	0.512930	2369878.	2250400.
1988	23.50	5365211.	0.532709	2858097.	2507114.
1987	24.50	4371790.	0.552150	2413884.	1957906.
1986	25.50	5399580.	0.571241	3084463.	2315117.
1985	26.50	3711529.	0.589968	2189684.	1521845.
1984	27.50	3283956.	0.608317	1997686.	1286270.
1983	28.50	2432831.	0.626275	1523621.	909210.
1982	29.50	1816068.	0.643824	1169228.	646840.
1981	30.50	1360184.	0.660941	899002.	461182.
1980	31.50	1197608.	0.677609	811510.	386098.
1979	32.50	1903925.	0.693800	1320943.	582982.
1978	33.50	842737.	0.709500	597922.	244815.
1977	34.50	616117.	0.724683	446489.	169628.
1976	35.50	258343.	0.739322	190999.	67344.
1975	36.50	687211.	0.753407	517750.	169461.
1974	37.50	601078.	0.766916	460976.	140102.
1973	38.50	197732.	0.779838	154199.	43533.
1972	39.50	180114.	0.792168	142681.	37433.
1971	40.50	123272.	0.803899	99098.	24174.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602. Mains Plastic

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -25.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	72695.	0.815035	59249.	13446.
1969	42.50	50925.	0.825586	42043.	8882.
1968	43.50	20225.	0.835567	16899.	3326.
1967	44.50	0.	0.844998	0.	0.
1966	45.50	1612.	0.853909	1377.	235.
1965	46.50	0.	0.862338	0.	0.
1964	47.50	0.	0.870325	0.	0.
1963	48.50	3970.	0.877915	3485.	485.
SUBTOTAL :			0.261143	80940931.	229008041.
NET SALVAGE: -25.0%				20235233.	-20235233.
TOTAL :		309948972.	0.326428	101176164.	208772808.

WEIGHTED AGE: 11.2 YEARS
REMAINING LIFE: 29.6 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602. Mains Plastic

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -25.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	24933472.	0.025000	623337.
2010	1.50 - 2.50	22006971.	0.025000	550174.
2009	2.50 - 3.50	25445502.	0.025000	636138.
2008	3.50 - 4.50	9010457.	0.025000	225261.
2007	4.50 - 5.50	8172856.	0.025000	204321.
2006	5.50 - 6.50	6646825.	0.025000	166171.
2005	6.50 - 7.50	10140749.	0.025000	253519.
2004	7.50 - 8.50	8331897.	0.025000	208297.
2003	8.50 - 9.50	10169110.	0.025000	254228.
2002	9.50 - 10.50	12001225.	0.025000	300031.
2001	10.50 - 11.50	21289542.	0.025000	532239.
2000	11.50 - 12.50	28250766.	0.025000	706269.
1999	12.50 - 13.50	19562499.	0.025000	489062.
1998	13.50 - 14.50	15314099.	0.025000	382852.
1997	14.50 - 15.50	8569593.	0.025000	214240.
1996	15.50 - 16.50	5487408.	0.025000	137185.
1995	16.50 - 17.50	7783179.	0.025000	194579.
1994	17.50 - 18.50	6713564.	0.025000	167839.
1993	18.50 - 19.50	6399377.	0.025000	159984.
1992	19.50 - 20.50	3410811.	0.025000	85270.
1991	20.50 - 21.50	3622147.	0.025000	90554.
1990	21.50 - 22.50	7567932.	0.025000	189198.
1989	22.50 - 23.50	4620278.	0.025000	115507.
1988	23.50 - 24.50	5365211.	0.025000	134130.
1987	24.50 - 25.50	4371790.	0.025000	109295.
1986	25.50 - 26.50	5399580.	0.025000	134990.
1985	26.50 - 27.50	3711529.	0.025000	92788.
1984	27.50 - 28.50	3283956.	0.025000	82099.
1983	28.50 - 29.50	2432831.	0.025000	60821.
1982	29.50 - 30.50	1816068.	0.025000	45402.
1981	30.50 - 31.50	1360184.	0.025000	34005.
1980	31.50 - 32.50	1197608.	0.025000	29940.
1979	32.50 - 33.50	1903925.	0.025000	47598.
1978	33.50 - 34.50	842737.	0.025000	21068.
1977	34.50 - 35.50	616117.	0.025000	15403.
1976	35.50 - 36.50	258343.	0.025000	6459.
1975	36.50 - 37.50	687211.	0.025000	17180.
1974	37.50 - 38.50	601078.	0.025000	15027.
1973	38.50 - 39.50	197732.	0.025000	4943.
1972	39.50 - 40.50	180114.	0.025000	4503.
1971	40.50 - 41.50	123272.	0.025000	3082.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602. Mains Plastic

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -25.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	72695.	0.025000	1817.
1969	42.50 - 43.50	50925.	0.025000	1273.
1968	43.50 - 44.50	20225.	0.025000	506.
1967	44.50 - 45.50	0.	0.025000	0.
1966	45.50 - 46.50	1612.	0.025000	40.
1965	46.50 - 47.50	0.	0.025000	0.
1964	47.50 - 48.50	0.	0.025000	0.
1963	48.50 - 49.50	3970.	0.025000	99.
SUBTOTAL :		309948972.	0.025000	7748724.
NET SALVAGE: -25.0 %				1937181.
TOTAL :		309948972.	0.031250	9685905.

MONTHLY RATE: 0.002604

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602. Mains Plastic

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	24933472.	39.5	985062988.
2010	1.50	22006971.	38.5	847831942.
2009	2.50	25445502.	37.5	955400456.
2008	3.50	9010457.	36.6	329533623.
2007	4.50	8172856.	35.6	290968651.
2006	5.50	6646825.	34.6	230222407.
2005	6.50	10140749.	33.7	341504032.
2004	7.50	8331897.	32.7	272641046.
2003	8.50	10169110.	31.8	323123650.
2002	9.50	12001225.	30.8	370051445.
2001	10.50	21289542.	29.9	636593651.
2000	11.50	28250766.	29.0	818623446.
1999	12.50	19562499.	28.1	548944792.
1998	13.50	15314099.	27.2	415845793.
1997	14.50	8569593.	26.3	225016794.
1996	15.50	5487408.	25.4	139219309.
1995	16.50	7783179.	24.5	190645804.
1994	17.50	6713564.	23.6	158638835.
1993	18.50	6399377.	22.8	145751456.
1992	19.50	3410811.	21.9	74812838.
1991	20.50	3622147.	21.1	76443195.
1990	21.50	7567932.	20.3	153532321.
1989	22.50	4620278.	19.5	90016000.
1988	23.50	5365211.	18.7	100284545.
1987	24.50	4371790.	17.9	78316257.
1986	25.50	5399580.	17.2	92604663.
1985	26.50	3711529.	16.4	60873816.
1984	27.50	3283956.	15.7	51450814.
1983	28.50	2432831.	14.9	36368398.
1982	29.50	1816068.	14.2	25873583.
1981	30.50	1360184.	13.6	18447281.
1980	31.50	1197608.	12.9	15443924.
1979	32.50	1903925.	12.2	23319268.
1978	33.50	842737.	11.6	9792617.
1977	34.50	616117.	11.0	6785105.
1976	35.50	258343.	10.4	2693773.
1975	36.50	687211.	9.9	6778459.
1974	37.50	601078.	9.3	5604076.
1973	38.50	197732.	8.8	1741323.
1972	39.50	180114.	8.3	1497338.
1971	40.50	123272.	7.8	966950.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602. Mains Plastic

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	72695.	7.4	537842.
1969	42.50	50925.	7.0	355281.
1968	43.50	20225.	6.6	133026.
1967	44.50	0.	6.2	0.
1966	45.50	1612.	5.8	9420.
1965	46.50	0.	5.5	0.
1964	47.50	0.	5.2	0.
1963	48.50	3970.	4.9	19387.
TOTAL:		309948972.	29.6	9160321619.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602. Mains Plastic

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 40.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0125	99.98075	0.01925	49.99519	0.025000	1.24988	1.23063	0.012309
1.50	0.0375	99.93475	0.04600	99.95775	0.025000	2.49894	3.68357	0.036860
2.50	0.0625	99.87875	0.05600	99.90675	0.025000	2.49767	6.12524	0.061327
3.50	0.0875	99.81025	0.06850	99.84450	0.025000	2.49611	8.55285	0.085691
4.50	0.1125	99.72875	0.08150	99.76950	0.025000	2.49424	10.96559	0.109954
5.50	0.1375	99.63050	0.09825	99.67963	0.025000	2.49199	13.35933	0.134089
6.50	0.1625	99.51400	0.11650	99.57225	0.025000	2.48931	15.73214	0.158090
7.50	0.1875	99.37575	0.13825	99.44488	0.025000	2.48612	18.08001	0.181936
8.50	0.2125	99.21425	0.16150	99.29500	0.025000	2.48238	20.40089	0.205625
9.50	0.2375	99.02600	0.18825	99.12012	0.025000	2.47800	22.69064	0.229138
10.50	0.2625	98.80700	0.21900	98.91650	0.025000	2.47291	24.94455	0.252457
11.50	0.2875	98.55450	0.25250	98.68075	0.025000	2.46702	27.15907	0.275574
12.50	0.3125	98.26450	0.29000	98.40950	0.025000	2.46024	29.32931	0.298473
13.50	0.3375	97.93275	0.33175	98.09862	0.025000	2.45247	31.45002	0.321139
14.50	0.3625	97.55525	0.37750	97.74400	0.025000	2.44360	33.51612	0.343560
15.50	0.3875	97.12875	0.42650	97.34200	0.025000	2.43355	35.52317	0.365733
16.50	0.4125	96.64725	0.48150	96.88800	0.025000	2.42220	37.46387	0.387635
17.50	0.4375	96.10650	0.54075	96.37687	0.025000	2.40942	39.33254	0.409260
18.50	0.4625	95.50250	0.60400	95.80450	0.025000	2.39511	41.12366	0.430603
19.50	0.4875	94.82925	0.67325	95.16587	0.025000	2.37915	42.82955	0.451649
20.50	0.5125	94.08150	0.74775	94.45537	0.025000	2.36138	44.44319	0.472390
21.50	0.5375	93.25400	0.82750	93.66775	0.025000	2.34169	45.95738	0.492819
22.50	0.5625	92.34125	0.91275	92.79763	0.025000	2.31994	47.36457	0.512930
23.50	0.5875	91.33650	1.00475	91.83888	0.025000	2.29597	48.65580	0.532709
24.50	0.6125	90.23350	1.10300	90.78500	0.025000	2.26963	49.82242	0.552150
25.50	0.6375	89.02525	1.20825	89.62938	0.025000	2.24073	50.85490	0.571241
26.50	0.6625	87.70350	1.32175	88.36438	0.025000	2.20911	51.74226	0.589968
27.50	0.6875	86.26025	1.44325	86.98187	0.025000	2.17455	52.47356	0.608317
28.50	0.7125	84.68750	1.57275	85.47387	0.025000	2.13685	53.03766	0.626275
29.50	0.7375	82.97600	1.71150	83.83175	0.025000	2.09579	53.42195	0.643824
30.50	0.7625	81.11550	1.86050	82.04575	0.025000	2.05114	53.61259	0.660941
31.50	0.7875	79.09725	2.01825	80.10637	0.025000	2.00266	53.59700	0.677609
32.50	0.8125	76.91100	2.18625	78.00412	0.025000	1.95010	53.36086	0.693800
33.50	0.8375	74.55025	2.36075	75.73062	0.025000	1.89327	52.89337	0.709500
34.50	0.8625	72.00750	2.54275	73.27887	0.025000	1.83197	52.18259	0.724683
35.50	0.8875	69.27650	2.73100	70.64200	0.025000	1.76605	51.21765	0.739322
36.50	0.9125	66.35800	2.91850	67.81725	0.025000	1.69543	49.99458	0.753407
37.50	0.9375	63.25300	3.10500	64.80550	0.025000	1.62014	48.50971	0.766916
38.50	0.9625	59.96950	3.28350	61.61125	0.025000	1.54028	46.76649	0.779838

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602. Mains Plastic

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 40.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	0.9875	56.52100	3.44850	58.24525	0.025000	1.45613	44.77413	0.792168
40.50	1.0125	52.92575	3.59525	54.72337	0.025000	1.36808	42.54696	0.803899
41.50	1.0375	49.20975	3.71600	51.06775	0.025000	1.27669	40.10766	0.815035
42.50	1.0625	45.40575	3.80400	47.30775	0.025000	1.18269	37.48635	0.825586
43.50	1.0875	41.55150	3.85425	43.47862	0.025000	1.08697	34.71906	0.835567
44.50	1.1125	37.68925	3.86225	39.62037	0.025000	0.99051	31.84732	0.844998
45.50	1.1375	33.86575	3.82350	35.77750	0.025000	0.89444	28.91826	0.853909
46.50	1.1625	30.12850	3.73725	31.99713	0.025000	0.79993	25.98094	0.862338
47.50	1.1875	26.52325	3.60525	28.32588	0.025000	0.70815	23.08384	0.870325
48.50	1.2125	23.09225	3.43100	24.80775	0.025000	0.62019	20.27303	0.877915
49.50	1.2375	19.87350	3.21875	21.48287	0.025000	0.53707	17.59135	0.885166
50.50	1.2625	16.89675	2.97675	18.38512	0.025000	0.45963	15.07423	0.892138
51.50	1.2875	14.18250	2.71425	15.53963	0.025000	0.38849	12.74847	0.898887
52.50	1.3125	11.74275	2.43975	12.96263	0.025000	0.32407	10.63279	0.905477
53.50	1.3375	9.58025	2.16250	10.66150	0.025000	0.26654	8.73682	0.911962
54.50	1.3625	7.68975	1.89050	8.63500	0.025000	0.21587	7.06220	0.918391
55.50	1.3875	6.05900	1.63075	6.87437	0.025000	0.17186	5.60331	0.924791
56.50	1.4125	4.67225	1.38675	5.36563	0.025000	0.13414	4.35070	0.931178
57.50	1.4375	3.51150	1.16075	4.09188	0.025000	0.10230	3.29225	0.937561
58.50	1.4625	2.55725	0.95425	3.03437	0.025000	0.07586	2.41385	0.943926
59.50	1.4875	1.78975	0.76750	2.17350	0.025000	0.05434	1.70069	0.950240
60.50	1.5125	1.19025	0.59950	1.49000	0.025000	0.03725	1.13844	0.956473
61.50	1.5375	0.74050	0.44975	0.96538	0.025000	0.02413	0.71283	0.962629
62.50	1.5625	0.42000	0.32050	0.58025	0.025000	0.01451	0.40683	0.968650
63.50	1.5875	0.20925	0.21075	0.31463	0.025000	0.00787	0.20395	0.974664
64.50	1.6125	0.08475	0.12450	0.14700	0.025000	0.00368	0.08312	0.980808
65.50	1.6375	0.02425	0.06050	0.05450	0.025000	0.00136	0.02399	0.989111
66.50	1.6625	0.00325	0.02100	0.01375	0.025000	0.00034	0.00333	1.000000
67.50	1.6875	0.00000	0.00325	0.00162	0.025000	0.00004	0.00000	1.000000
		3999.99999	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	24933472.	0.	0.	0.	0.	0.	0.	0.	0
2010	22006971.	0.	188.	0.	0.	0.	0.	0.	0
2009	25445502.	0.	906.	0.	0.	0.	0.	0.	0
2008	9010457.	0.	0.	1697.	0.	0.	0.	0.	0
2007	8172856.	0.	3307.	0.	0.	0.	0.	0.	0
2006	6646825.	0.	0.	1084.	3796.	0.	0.	0.	0
2005	10140749.	0.	0.	0.	3607.	177.	0.	0.	0
2004	8331897.	0.	4615.	13371.	0.	24313.	0.	3497.	0
2003	10169110.	0.	16932.	0.	8591.	1587.	5008.	33068.	78519
2002	12001225.	0.	24509.	91410.	0.	56877.	16000.	5801.	784
2001	21289542.	0.	0.	75238.	17336.	69142.	5893.	43.	0
2000	28250766.	0.	12605.	30221.	186826.	28774.	1869.	123425.	160573
1999	19562499.	441373.	8081.	90670.	116109.	347902.	24521.	34223.	61754
1998	15314099.	0.	20121.	5583.	51787.	36513.	18880.	5188.	16801
1997	8569593.	0.	26882.	26901.	51425.	0.	3532.	1461.	58888
1996	5487408.	0.	25346.	0.	0.	0.	2051.	54876.	0
1995	7783179.	0.	18453.	71157.	69010.	0.	0.	57609.	26472
1994	6713564.	0.	136.	0.	0.	4382.	0.	15034.	0
1993	6399377.	0.	5649.	35845.	41471.	2678.	0.	28359.	29417
1992	3410811.	0.	6761.	3355.	5081.	763.	10805.	9351.	0
1991	3622147.	0.	291.	3320.	4878.	21728.	0.	27053.	4757
1990	7567932.	171351.	4892.	0.	19862.	2220.	19737.	360.	9737
1989	4620278.	0.	13298.	0.	0.	31869.	6524.	5759.	162972
1988	5365211.	0.	11205.	8374.	23337.	0.	1780.	1625.	1881
1987	4371790.	124790.	5012.	23220.	10566.	5291.	0.	485.	5208
1986	5399580.	300074.	4095.	14387.	165.	13513.	11004.	11083.	30291
1985	3711529.	0.	9192.	19657.	12747.	4134.	0.	3688.	5699
1984	3283956.	0.	0.	0.	4333.	4907.	829.	17705.	0
1983	2432831.	0.	50.	409.	1844.	0.	0.	1668.	16403
1982	1816068.	0.	14538.	12952.	1710.	11826.	0.	3367.	664
1981	1360184.	0.	10838.	0.	0.	908.	0.	0.	471
1980	1197608.	0.	0.	496.	0.	4476.	0.	0.	1322
1979	1903925.	224081.	706.	1099.	520.	0.	53.	2549.	1108
1978	842737.	369232.	350.	582.	0.	880.	0.	18893.	0
1977	616117.	175143.	9603.	0.	0.	0.	0.	9526.	0
1976	258343.	112186.	2647.	1232.	0.	4949.	772.	2414.	650
1975	687211.	1379.	0.	0.	1090.	0.	0.	0.	0
1974	601078.	92548.	45.	85.	0.	196.	0.	314.	0
1973	197732.	44175.	0.	0.	0.	3651.	0.	0.	2017
1972	180114.	73828.	76.	11446.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	123272.	61233.	0.	487.	0.	0.	0.	0.	0
1970	72695.	103390.	0.	0.	0.	0.	0.	800.	469
1969	50925.	125598.	0.	0.	3737.	953.	0.	0.	2507
1968	20225.	102440.	1171.	0.	502.	795.	1114.	0.	0
1967	0.	7314.	92.	0.	4362.	0.	935.	0.	0
1966	1612.	1017.	0.	0.	0.	0.	0.	0.	478
1965	0.	211530.	0.	0.	0.	0.	0.	0.	0
1964	0.	0.	0.	0.	0.	0.	0.	0.	0
1963	3970.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	309948972.	2742682.	262592.	544278.	644692.	685404.	131307.	479224.	679842

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	24933472.	0.	0.	0.	0.	0.	0.	0.	0
2010	22006971.	0.	0.	0.	0.	0.	0.	0.	0
2009	25445502.	0.	0.	0.	0.	0.	0.	0.	0
2008	9010457.	0.	0.	0.	0.	0.	0.	0.	0
2007	8172856.	0.	0.	0.	0.	0.	0.	0.	0
2006	6646825.	0.	0.	0.	0.	0.	0.	0.	0
2005	10140749.	0.	0.	0.	0.	0.	0.	0.	0
2004	8331897.	0.	0.	0.	0.	0.	0.	0.	0
2003	10169110.	0.	0.	0.	0.	0.	0.	0.	0
2002	12001225.	0.	12857.	0.	0.	0.	0.	0.	0
2001	21289542.	0.	0.	0.	0.	0.	0.	0.	0
2000	28250766.	3479.	0.	0.	0.	0.	0.	0.	0
1999	19562499.	59932.	31139.	10759.	0.	18364.	0.	0.	0
1998	15314099.	59428.	0.	11896.	0.	26.	0.	0.	0
1997	8569593.	1162.	43881.	0.	5494.	0.	20859.	0.	0
1996	5487408.	11281.	0.	0.	0.	0.	0.	6468.	0
1995	7783179.	18785.	4063.	0.	0.	0.	5153.	3810.	1904
1994	6713564.	3145.	5908.	9048.	0.	16718.	436.	0.	1930
1993	6399377.	5926.	12112.	0.	0.	0.	280.	2505.	0
1992	3410811.	1694.	2672.	0.	722.	2227.	0.	0.	4966
1991	3622147.	875.	3127.	0.	0.	0.	0.	6023.	5508
1990	7567932.	49433.	15414.	416.	8945.	59258.	1547.	86688.	32221
1989	4620278.	40694.	18361.	14992.	4349.	1461.	5064.	0.	525
1988	5365211.	42212.	0.	0.	0.	2556.	0.	0.	0
1987	4371790.	1738.	4660.	569.	0.	0.	0.	36631.	1331
1986	5399580.	14943.	532.	3057.	11975.	9938.	11635.	43532.	7150
1985	3711529.	25863.	8930.	0.	4302.	0.	0.	0.	0
1984	3283956.	0.	0.	0.	0.	0.	1424.	11005.	53676
1983	2432831.	67759.	915.	0.	11715.	0.	1698.	808.	318
1982	1816068.	10714.	2620.	245.	0.	0.	113.	1341.	399
1981	1360184.	200.	0.	0.	1935.	0.	0.	0.	7229
1980	1197608.	2861.	10011.	0.	8565.	0.	9334.	1188.	0
1979	1903925.	16770.	196.	5683.	0.	0.	0.	403.	395
1978	842737.	0.	1829.	1162.	4150.	0.	0.	0.	1861
1977	616117.	9526.	9296.	0.	0.	342.	14265.	0.	0
1976	258343.	3799.	4324.	0.	0.	9761.	73.	1666.	1941
1975	687211.	11256.	0.	0.	0.	0.	0.	29090.	0
1974	601078.	12977.	449.	0.	0.	15231.	1357.	0.	3184
1973	197732.	287.	0.	0.	0.	0.	0.	0.	0
1972	180114.	1855.	591.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	123272.	1237.	0.	0.	1465.	142.	15028.	2884.	0
1970	72695.	343.	0.	0.	0.	0.	0.	3400.	10721
1969	50925.	10749.	2209.	0.	0.	5908.	0.	5640.	2006
1968	20225.	6891.	2463.	455.	20977.	21893.	0.	1310.	0
1967	0.	0.	1848.	0.	0.	2348.	0.	870.	0
1966	1612.	0.	0.	0.	0.	0.	0.	0.	0
1965	0.	0.	0.	0.	0.	0.	0.	1192.	0
1964	0.	0.	0.	0.	0.	0.	0.	0.	0
1963	3970.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	309948972.	497814.	200407.	58282.	84594.	166173.	88266.	246454.	137265

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	24933472.	0.	0.	0.	0.	0.	0.	0.	0
2010	22006971.	0.	0.	0.	0.	0.	0.	0.	0
2009	25445502.	0.	0.	0.	0.	0.	0.	0.	0
2008	9010457.	0.	0.	0.	0.	0.	0.	0.	0
2007	8172856.	0.	0.	0.	0.	0.	0.	0.	0
2006	6646825.	0.	0.	0.	0.	0.	0.	0.	0
2005	10140749.	0.	0.	0.	0.	0.	0.	0.	0
2004	8331897.	0.	0.	0.	0.	0.	0.	0.	0
2003	10169110.	0.	0.	0.	0.	0.	0.	0.	0
2002	12001225.	0.	0.	0.	0.	0.	0.	0.	0
2001	21289542.	0.	0.	0.	0.	0.	0.	0.	0
2000	28250766.	0.	0.	0.	0.	0.	0.	0.	0
1999	19562499.	0.	0.	0.	0.	0.	0.	0.	0
1998	15314099.	0.	0.	0.	0.	0.	0.	0.	0
1997	8569593.	0.	0.	0.	0.	0.	0.	0.	0
1996	5487408.	0.	0.	0.	0.	0.	0.	0.	0
1995	7783179.	0.	0.	0.	0.	0.	0.	0.	0
1994	6713564.	11003.	2901.	0.	0.	0.	0.	0.	0
1993	6399377.	19551.	9970.	0.	0.	0.	0.	0.	0
1992	3410811.	0.	0.	0.	0.	0.	0.	0.	0
1991	3622147.	0.	0.	0.	0.	2227.	0.	0.	0
1990	7567932.	4669.	2698.	0.	1445.	1395.	0.	0.	0
1989	4620278.	12380.	1789.	25190.	1197.	2072.	4800.	0.	0
1988	5365211.	3186.	0.	0.	2341.	25467.	3251.	0.	2435
1987	4371790.	36758.	5316.	18593.	1966.	1380.	3853.	27745.	3616
1986	5399580.	100862.	84412.	919.	9882.	13001.	0.	5021.	835
1985	3711529.	4745.	0.	5241.	83245.	1853.	0.	0.	0
1984	3283956.	1317.	0.	1876.	1641.	0.	98.	0.	19129
1983	2432831.	3460.	4586.	0.	0.	0.	3505.	2199.	6285
1982	1816068.	842.	0.	0.	0.	0.	0.	0.	5519
1981	1360184.	0.	0.	0.	1242.	1533.	0.	6027.	0
1980	1197608.	0.	0.	1566.	1026.	1411.	0.	0.	0
1979	1903925.	7248.	0.	11913.	17118.	14250.	587.	4662.	7362
1978	842737.	0.	163.	0.	1440.	11083.	140.	348.	674
1977	616117.	2906.	7328.	0.	0.	832.	7608.	7703.	0
1976	258343.	2263.	0.	0.	1398.	420.	0.	0.	0
1975	687211.	0.	0.	184.	0.	274.	0.	252.	9180
1974	601078.	33743.	148.	0.	0.	0.	0.	0.	0
1973	197732.	0.	0.	0.	6943.	0.	0.	0.	0
1972	180114.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	123272.	596.	1096.	882.	0.	101.	0.	0.	0
1970	72695.	131.	2022.	0.	378.	632.	0.	0.	0
1969	50925.	6158.	18838.	10824.	6895.	51095.	0.	0.	0
1968	20225.	913.	10776.	9450.	0.	37324.	0.	0.	64
1967	0.	0.	1637.	530.	916.	59699.	5962.	2351.	362
1966	1612.	0.	181.	0.	238.	0.	0.	0.	0
1965	0.	0.	0.	0.	0.	0.	0.	0.	0
1964	0.	0.	0.	0.	0.	0.	0.	0.	0
1963	3970.	0.	0.	0.	0.	0.	0.	0.	47
TOTAL	309948972.	252731.	153861.	87168.	139311.	226049.	29804.	56308.	55508

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986
2011	24933472.	0.	0.
2010	22006971.	0.	0.
2009	25445502.	0.	0.
2008	9010457.	0.	0.
2007	8172856.	0.	0.
2006	6646825.	0.	0.
2005	10140749.	0.	0.
2004	8331897.	0.	0.
2003	10169110.	0.	0.
2002	12001225.	0.	0.
2001	21289542.	0.	0.
2000	28250766.	0.	0.
1999	19562499.	0.	0.
1998	15314099.	0.	0.
1997	8569593.	0.	0.
1996	5487408.	0.	0.
1995	7783179.	0.	0.
1994	6713564.	0.	0.
1993	6399377.	0.	0.
1992	3410811.	0.	0.
1991	3622147.	0.	0.
1990	7567932.	0.	0.
1989	4620278.	0.	0.
1988	5365211.	0.	0.
1987	4371790.	0.	0.
1986	5399580.	6134.	695.
1985	3711529.	3767.	3961.
1984	3283956.	5517.	3228.
1983	2432831.	0.	2180.
1982	1816068.	1810.	0.
1981	1360184.	0.	0.
1980	1197608.	0.	0.
1979	1903925.	2669.	2326.
1978	842737.	645.	4571.
1977	616117.	0.	0.
1976	258343.	0.	0.
1975	687211.	1483.	3708.
1974	601078.	0.	1265.
1973	197732.	221.	0.
1972	180114.	144.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986
1971	123272.	0.	0.
1970	72695.	1665.	0.
1969	50925.	0.	176.
1968	20225.	2326.	1166.
1967	0.	104.	7545.
1966	1612.	0.	0.
1965	0.	0.	0.
1964	0.	0.	0.
1963	3970.	0.	0.
TOTAL	309948972.	26485.	30821.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1986 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	296198423.	39667.	0.00013392	0.99986608	1.00000000
0.5	275133837.	154755.	0.00056247	0.99943753	0.99986608
1.5	256382752.	116218.	0.00045330	0.99954670	0.99930368
2.5	233379665.	143516.	0.00061495	0.99938505	0.99885070
3.5	226110420.	296780.	0.00131254	0.99868746	0.99823646
4.5	219031351.	425246.	0.00194148	0.99805852	0.99692623
5.5	213199144.	216580.	0.00101586	0.99898414	0.99499071
6.5	205067438.	455378.	0.00222063	0.99777937	0.99397994
7.5	197540903.	823097.	0.00416672	0.99583328	0.99177269
8.5	187418891.	459378.	0.00245108	0.99754892	0.98764025
9.5	175367126.	289121.	0.00164866	0.99835134	0.98521947
10.5	154533570.	178413.	0.00115453	0.99884547	0.98359518
11.5	126867011.	642673.	0.00506572	0.99493428	0.98245959
12.5	106916865.	250834.	0.00234607	0.99765393	0.97748272
13.5	91619986.	217303.	0.00237179	0.99762821	0.97518948
14.5	83041513.	289082.	0.00348117	0.99651883	0.97287654
15.5	77461669.	101633.	0.00131204	0.99868796	0.96948979
16.5	69881075.	75799.	0.00108469	0.99891531	0.96821778
17.5	63333967.	136085.	0.00214869	0.99785131	0.96716757
18.5	56895380.	39245.	0.00068977	0.99931023	0.96508942
19.5	53448850.	129514.	0.00242314	0.99757686	0.96442373
20.5	49909911.	312592.	0.00626312	0.99373688	0.96208680
21.5	42029387.	149324.	0.00355285	0.99644715	0.95606113
22.5	37263802.	106148.	0.00284856	0.99715144	0.95266439
23.5	31792443.	247294.	0.00777839	0.99222161	0.94995067
24.5	27173359.	377953.	0.01390895	0.98609105	0.94256159
25.5	21395826.	50733.	0.00237116	0.99762884	0.92945154
26.5	17633564.	63207.	0.00358447	0.99641553	0.92724766
27.5	14286401.	42382.	0.00296660	0.99703340	0.92392397
28.5	11811188.	30900.	0.00261616	0.99738384	0.92118306
29.5	9964220.	9527.	0.00095612	0.99904388	0.91877309
30.5	8594509.	32316.	0.00376008	0.99623992	0.91789463
31.5	7364585.	250185.	0.03397136	0.96602864	0.91444328
32.5	5210475.	384360.	0.07376679	0.92623321	0.88337839
33.5	3983378.	195122.	0.04898405	0.95101595	0.81821441
34.5	3172139.	124317.	0.03919028	0.96080972	0.77813495
35.5	2789479.	1424.	0.00051049	0.99948951	0.74763963
36.5	2100844.	103994.	0.04950106	0.95049894	0.74725796
37.5	1395772.	47283.	0.03387588	0.96612412	0.71026790
38.5	1150757.	79295.	0.06890682	0.93109318	0.68620696

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37602 Mains Plastic

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1986 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	891348.	61735.	0.06926027	0.93073973	0.63892262
40.5	706341.	107752.	0.15254955	0.84745045	0.59467067
41.5	525894.	126769.	0.24105428	0.75894572	0.50395393
42.5	348200.	102532.	0.29446295	0.70553705	0.38247368
43.5	225443.	7314.	0.03244279	0.96755721	0.26984935
44.5	218129.	1017.	0.00466238	0.99533762	0.26109468
45.5	215500.	211530.	0.98157773	0.01842227	0.25987736
46.5	3971.	0.	0.00000000	1.00000000	0.00478753
47.5	3970.	0.	0.00000000	1.00000000	0.00478753
TOTAL		8707322.			39.18053737

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 64.485640 FIT INDEX 0.001448 VARIANCE 0.244497

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	296198423.	39667.	0.	0.00013392	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	275133837.	154755.	0.	0.00056247	0.00000000	0.99986608	1.00000000	0.78	0.00775437
1.5	256382752.	116218.	0.	0.00045330	0.00000000	0.99930368	1.00000000	2.33	0.02326164
2.5	233379665.	143516.	0.	0.00061495	0.00000000	0.99885070	1.00000000	3.88	0.03876897
3.5	226110420.	296780.	74685.	0.00131254	0.00033030	0.99823646	1.00000000	5.43	0.05427630
4.5	219031351.	425246.	162965.	0.00194148	0.00074403	0.99692623	0.99966970	6.98	0.06947371
5.5	213199144.	216580.	246831.	0.00101586	0.00115775	0.99499071	0.99892592	8.53	0.08429394
6.5	205067438.	455378.	322258.	0.00222063	0.00157147	0.99397994	0.99776941	10.08	0.09874884
7.5	197540903.	823097.	392157.	0.00416672	0.00198519	0.99177269	0.99620144	11.63	0.11284984
8.5	187418891.	459378.	449602.	0.00245108	0.00239892	0.98764025	0.99422379	13.18	0.12660790
9.5	175367126.	289121.	493244.	0.00164866	0.00281264	0.98521947	0.99183873	14.73	0.14003366
10.5	154533570.	178413.	498581.	0.00115453	0.00322636	0.98359518	0.98904905	16.28	0.15313728
11.5	126867011.	642673.	461807.	0.00506572	0.00364008	0.98245959	0.98585802	17.83	0.16592856
12.5	106916865.	250834.	433420.	0.00234607	0.00405381	0.97748272	0.98226941	19.38	0.17841705
13.5	91619986.	217303.	409315.	0.00237179	0.00446753	0.97518948	0.97828748	20.93	0.19061184
14.5	83041513.	289082.	405346.	0.00348117	0.00488125	0.97287654	0.97391696	22.49	0.20252176
15.5	77461669.	101633.	410157.	0.00131204	0.00529497	0.96948979	0.96916302	24.04	0.21415531
16.5	69881075.	75799.	398930.	0.00108469	0.00570870	0.96821778	0.96403133	25.59	0.22552072
17.5	63333967.	136085.	387757.	0.00214869	0.00612242	0.96716757	0.95852797	27.14	0.23662591
18.5	56895380.	39245.	371876.	0.00068977	0.00653614	0.96508942	0.95265946	28.69	0.24747849
19.5	53448850.	129514.	371462.	0.00242314	0.00694986	0.96442373	0.94643274	30.24	0.25808589
20.5	49909911.	312592.	367516.	0.00626312	0.00736359	0.96208680	0.93985517	31.79	0.26845522
21.5	42029387.	149324.	326876.	0.00355285	0.00777731	0.95606113	0.93293446	33.34	0.27859328
22.5	37263802.	106148.	305229.	0.00284856	0.00819103	0.95266439	0.92567874	34.89	0.28850680
23.5	31792443.	247294.	273566.	0.00777839	0.00860475	0.94995067	0.91809648	36.44	0.29820216
24.5	27173359.	377953.	245062.	0.01390895	0.00901848	0.94256159	0.91019649	37.99	0.30768554
25.5	21395826.	50733.	201810.	0.00237116	0.00943220	0.92945154	0.90198790	39.54	0.31696302
26.5	17633564.	63207.	173619.	0.00358447	0.00984592	0.92724766	0.89348017	41.09	0.32604031
27.5	14286401.	42382.	146573.	0.00296660	0.01025964	0.92392397	0.88468304	42.65	0.33492297
28.5	11811188.	30900.	126065.	0.00261616	0.01067337	0.92118306	0.87560651	44.20	0.34361647
29.5	9964220.	9527.	110474.	0.00095612	0.01108709	0.91877309	0.86626084	45.75	0.35212604
30.5	8594509.	32316.	98844.	0.00376008	0.01150081	0.91789463	0.85665653	47.30	0.36045672
31.5	7364585.	250185.	87746.	0.03397136	0.01191453	0.91444328	0.84680428	48.85	0.36861340

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 64.485640 FIT INDEX 0.001448 VARIANCE 0.244497

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 47.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	5210475.	384360.	64236.	0.07376679	0.01232826	0.88337839	0.83671500	50.40	0.37660086
33.5	3983378.	195122.	50756.	0.04898405	0.01274198	0.81821441	0.82639977	51.95	0.38442363
34.5	3172139.	124317.	41732.	0.03919028	0.01315570	0.77813495	0.81586980	53.50	0.39208615
35.5	2789479.	1424.	37852.	0.00051049	0.01356942	0.74763963	0.80513646	55.05	0.39959270
36.5	2100844.	103994.	29376.	0.04950106	0.01398315	0.74725796	0.79421122	56.60	0.40694742
37.5	1395772.	47283.	20095.	0.03387588	0.01439687	0.71026790	0.78310565	58.15	0.41415435
38.5	1150757.	79295.	17043.	0.06890682	0.01481059	0.68620696	0.77183138	59.70	0.42121740
39.5	891348.	61735.	13570.	0.06926027	0.01522431	0.63892262	0.76040011	61.25	0.42814031
40.5	706341.	107752.	11046.	0.15254955	0.01563804	0.59467067	0.74882354	62.80	0.43492676
41.5	525894.	126769.	8442.	0.24105428	0.01605176	0.50395393	0.73711341	64.36	0.44158024
42.5	348200.	102532.	5733.	0.29446295	0.01646548	0.38247368	0.72528144	65.91	0.44810422
43.5	225443.	7314.	3805.	0.03244279	0.01687920	0.26984935	0.71333933	67.46	0.45450198
44.5	218129.	1017.	3772.	0.00466238	0.01729293	0.26109468	0.70129874	69.01	0.46077676
45.5	215500.	211530.	3816.	0.98157773	0.01770665	0.25987736	0.68917123	70.56	0.46693172
46.5	3971.	0.	72.	0.00000000	0.01812037	0.00478753	0.67696832	72.11	0.47296981
47.5	3970.	0.	74.	0.00000000	0.01853409	0.00478753	0.66470140	73.66	0.47889399
TOTAL (EXCEPT AGE 0)	8667655.	9065194.							

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 64.485640 FIT INDEX 0.001448 VARIANCE 0.244497

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
48.5					0.01894782		0.65238176	75.21	0.48470712
49.5					0.01936154		0.64002055	76.76	0.49041196
50.5					0.01977526		0.62762877	78.31	0.49601116
51.5					0.02018898		0.61521725	79.86	0.50150733
52.5					0.02060271		0.60279664	81.41	0.50690299
53.5					0.02101643		0.59037740	82.96	0.51220058
54.5					0.02143015		0.57796977	84.51	0.51740249
55.5					0.02184387		0.56558379	86.07	0.52251101
56.5					0.02225760		0.55322925	87.62	0.52752837
57.5					0.02267132		0.54091570	89.17	0.53245671
58.5					0.02308504		0.52865243	90.72	0.53729821
59.5					0.02349876		0.51644847	92.27	0.54205489
60.5					0.02391248		0.50431257	93.82	0.54672869
61.5					0.02432621		0.49225320	95.37	0.55132159
62.5					0.02473993		0.48027855	96.92	0.55583546
63.5					0.02515365		0.46839649	98.47	0.56027214
64.5					0.02556737		0.45661461	100.02	0.56463337
65.5					0.02598110		0.44494017	101.57	0.56892089
66.5					0.02639482		0.43338014	103.12	0.57313640
67.5					0.02680854		0.42194115	104.67	0.57728149
68.5					0.02722226		0.41062952	106.23	0.58135775
69.5					0.02763599		0.39945125	107.78	0.58536674
70.5					0.02804971		0.38841202	109.33	0.58930997
71.5					0.02846343		0.37751718	110.88	0.59318889
72.5					0.02887715		0.36677174	112.43	0.59700488
73.5					0.02929088		0.35618042	113.98	0.60075937
74.5					0.02970460		0.34574758	115.53	0.60445368
75.5					0.03011832		0.33547729	117.08	0.60808915
76.5					0.03053204		0.32537328	118.63	0.61166699
77.5					0.03094577		0.31543896	120.18	0.61518850
78.5					0.03135949		0.30567746	121.73	0.61865485
79.5					0.03177321		0.29609157	123.28	0.62206725
80.5					0.03218693		0.28668379	124.83	0.62542682

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 64.485640 FIT INDEX 0.001448 VARIANCE 0.244497

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
81.5					0.03260066		0.27745632	126.38	0.62873468
82.5					0.03301438		0.26841106	127.94	0.63199193
83.5					0.03342810		0.25954964	129.49	0.63519962
84.5					0.03384182		0.25087339	131.04	0.63835878
85.5					0.03425555		0.24238337	132.59	0.64147042
86.5					0.03466927		0.23408040	134.14	0.64453552
87.5					0.03508299		0.22596500	135.69	0.64755502
88.5					0.03549671		0.21803747	137.24	0.65052987
89.5					0.03591044		0.21029786	138.79	0.65346098
90.5					0.03632416		0.20274597	140.34	0.65634924
91.5					0.03673788		0.19538140	141.89	0.65919548
92.5					0.03715160		0.18820350	143.44	0.66200055
93.5					0.03756533		0.18121143	144.99	0.66476530
94.5					0.03797905		0.17440417	146.54	0.66749051
95.5					0.03839277		0.16778046	148.09	0.67017700
96.5					0.03880649		0.16133891	149.65	0.67282550
97.5					0.03922022		0.15507791	151.20	0.67543676
98.5					0.03963394		0.14899572	152.75	0.67801154
99.5					0.04004766		0.14309043	154.30	0.68055051
100.5					0.04046138		0.13736000	155.85	0.68305439
101.5					0.04087511		0.13180222	157.40	0.68552387
102.5					0.04128883		0.12641479	158.95	0.68795959
103.5					0.04170255		0.12119527	160.50	0.69036220
104.5					0.04211627		0.11614112	162.05	0.69273234
105.5					0.04253000		0.11124969	163.60	0.69507062
106.5					0.04294372		0.10651824	165.15	0.69737765
107.5					0.04335744		0.10194395	166.70	0.69965404
108.5					0.04377116		0.09752392	168.25	0.70190036
109.5					0.04418489		0.09325519	169.81	0.70411716
110.5					0.04459861		0.08913472	171.36	0.70630501
111.5					0.04501233		0.08515943	172.91	0.70846445
112.5					0.04542605		0.08132621	174.46	0.71059602
113.5					0.04583978		0.07763188	176.01	0.71270025

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 64.485640 FIT INDEX 0.001448 VARIANCE 0.244497

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 47.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
114.5					0.04625350		0.07407325	177.56	0.71477761
115.5					0.04666722		0.07064710	179.11	0.71682862
116.5					0.04708094		0.06735020	180.66	0.71885380
117.5					0.04749467		0.06417929	182.21	0.72085359
118.5					0.04790839		0.06113111	183.76	0.72282850
119.5					0.04832211		0.05820242	185.31	0.72477896
120.5					0.04873583		0.05538996	186.86	0.72670544
121.5					0.04914956		0.05269048	188.41	0.72860840
122.5					0.04956328		0.05010077	189.96	0.73048827
123.5					0.04997700		0.04761761	191.52	0.73234545
124.5					0.05039072		0.04523782	193.07	0.73418041
125.5					0.05080445		0.04295826	194.62	0.73599356
126.5					0.05121817		0.04077579	196.17	0.73778529
127.5					0.05163189		0.03868733	197.72	0.73955602
128.5					0.05204561		0.03668983	199.27	0.74130617
129.5					0.05245934		0.03478028	200.82	0.74303611
130.5					0.05287306		0.03295573	202.37	0.74474624
131.5					0.05328678		0.03121326	203.92	0.74643694
132.5					0.05370050		0.02955001	205.47	0.74810861
133.5					0.05411423		0.02796316	207.02	0.74976164
134.5					0.05452795		0.02644995	208.57	0.75139640
135.5					0.05494167		0.02500769	210.12	0.75301326
136.5					0.05535539		0.02363373	211.68	0.75461259
137.5					0.05576912		0.02232547	213.23	0.75619477
138.5					0.05618284		0.02108040	214.78	0.75776020
139.5					0.05659656		0.01989604	216.33	0.75930922
140.5					0.05701028		0.01877000	217.88	0.76084219
141.5					0.05742401		0.01769991	219.43	0.76235954
142.5					0.05783773		0.01668351	220.98	0.76386163
143.5					0.05825145		0.01571858	222.53	0.76534880
144.5					0.05866517		0.01480295	224.08	0.76682148
145.5					0.05907890		0.01393453	225.63	0.76828005
146.5					0.05949262		0.01311129	227.18	0.76972489

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 64.485640 FIT INDEX 0.001448 VARIANCE 0.244497

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
147.5					0.05990634		0.01233127	228.73	0.77115644
148.5					0.06032006		0.01159255	230.28	0.77257507
149.5					0.06073379		0.01089328	231.83	0.77398124
150.5					0.06114751		0.01023169	233.39	0.77537535
151.5					0.06156123		0.00960605	234.94	0.77675786
152.5					0.06197495		0.00901469	236.49	0.77812922
153.5					0.06238868		0.00845601	238.04	0.77948992
154.5					0.06280240		0.00792845	239.59	0.78084044
155.5					0.06321612		0.00743052	241.14	0.78218128
156.5					0.06362984		0.00696079	242.69	0.78351299
157.5					0.06404357		0.00651788	244.24	0.78483611
158.5					0.06445729		0.00610045	245.79	0.78615123
159.5					0.06487101		0.00570723	247.34	0.78745897
160.5					0.06528473		0.00533700	248.89	0.78875996
161.5					0.06569846		0.00498857	250.44	0.79005489
162.5					0.06611218		0.00466083	251.99	0.79134447
163.5					0.06652590		0.00435269	253.54	0.79262948
164.5					0.06693962		0.00406313	255.10	0.79391071
165.5					0.06735335		0.00379114	256.65	0.79518904
166.5					0.06776707		0.00353580	258.20	0.79646539
167.5					0.06818079		0.00329619	259.75	0.79774076
168.5					0.06859451		0.00307145	261.30	0.79901620
169.5					0.06900824		0.00286076	262.85	0.80029285
170.5					0.06942196		0.00266335	264.40	0.80157195
171.5					0.06983568		0.00247845	265.95	0.80285480
172.5					0.07024940		0.00230537	267.50	0.80414281
173.5					0.07066313		0.00214342	269.05	0.80543756
174.5					0.07107685		0.00199196	270.60	0.80674069
175.5					0.07149057		0.00185038	272.15	0.80805399
176.5					0.07190429		0.00171809	273.70	0.80937943
177.5					0.07231801		0.00159455	275.26	0.81071913
178.5					0.07273174		0.00147924	276.81	0.81207539
179.5					0.07314546		0.00137165	278.36	0.81345073

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 64.485640 FIT INDEX 0.001448 VARIANCE 0.244497

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 47.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
180.5					0.07355918		0.00127132	279.91	0.81484786
181.5					0.07397290		0.00117780	281.46	0.81626979
182.5					0.07438663		0.00109068	283.01	0.81771977
183.5					0.07480035		0.00100955	284.56	0.81920132
184.5					0.07521407		0.00093403	286.11	0.82071834
185.5					0.07562779		0.00086378	287.66	0.82227508
186.5					0.07604152		0.00079845	289.21	0.82387616
187.5					0.07645524		0.00073774	290.76	0.82552667
188.5					0.07686896		0.00068133	292.31	0.82723218
189.5					0.07728268		0.00062896	293.86	0.82899882
190.5					0.07769641		0.00058035	295.41	0.83083325
191.5					0.07811013		0.00053526	296.97	0.83274287
192.5					0.07852385		0.00049345	298.52	0.83473575
193.5					0.07893757		0.00045470	300.07	0.83682076
194.5					0.07935130		0.00041881	301.62	0.83900769
195.5					0.07976502		0.00038558	303.17	0.84130728
196.5					0.08017874		0.00035482	304.72	0.84373137
197.5					0.08059246		0.00032637	306.27	0.84629299
198.5					0.08100619		0.00030007	307.82	0.84900649
199.5					0.08141991		0.00027576	309.37	0.85188771
200.5					0.08183363		0.00025331	310.92	0.85495411
201.5					0.08224735		0.00023258	312.47	0.85822496
202.5					0.08266108		0.00021345	314.02	0.86172154
203.5					0.08307480		0.00019581	315.57	0.86546733
204.5					0.08348852		0.00017954	317.12	0.86948829
205.5					0.08390224		0.00016455	318.68	0.87381312
206.5					0.08431597		0.00015074	320.23	0.87847356
207.5					0.08472969		0.00013803	321.78	0.88350471
208.5					0.08514341		0.00012634	323.33	0.88894546
209.5					0.08555713		0.00011558	324.88	0.89483884
210.5					0.08597086		0.00010569	326.43	0.90123253
211.5					0.08638458		0.00009661	327.98	0.90817936
212.5					0.08679830		0.00008826	329.53	0.91573795

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 64.485640 FIT INDEX 0.001448 VARIANCE 0.244497

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
213.5					0.08721202		0.00008060	331.08	0.92397328
214.5					0.08762575		0.00007357	332.63	0.93295749
215.5					0.08803947		0.00006712	334.18	0.94277063
216.5					0.08845319		0.00006121	335.73	0.95350164
217.5					0.08886691		0.00005580	337.28	0.96524932
218.5					0.08928064		0.00005084	338.84	0.97812351
219.5							0.00004630	340.39	0.99224634

EQUIVALENT H CURVE IS 1.76

EQUIVALENT L CURVE IS 1.50

EQUIVALENT R CURVE IS 1.00

EQUIVALENT S CURVE IS 0.00

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 2 AVG LIFE 43.113630 FIT INDEX 0.001363 VARIANCE 0.091805

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	296198423.	39667.	610140.	0.00013392	0.00205990	1.00000000	1.00000000	0.00	0.00000000
0.5	275133837.	154755.	1008180.	0.00056247	0.00366433	0.99986608	0.99794010	1.16	0.00954481
1.5	256382752.	116218.	725998.	0.00045330	0.00283169	0.99930368	0.99428332	3.48	0.02913928
2.5	233379665.	143516.	490911.	0.00061495	0.00210349	0.99885070	0.99146781	5.80	0.04960972
3.5	226110420.	296780.	334576.	0.00131254	0.00147970	0.99823646	0.98938227	8.12	0.07082531
4.5	219031351.	425246.	210345.	0.00194148	0.00096034	0.99692623	0.98791828	10.44	0.09266011
5.5	213199144.	216580.	116280.	0.00101586	0.00054541	0.99499071	0.98696954	12.76	0.11499360
6.5	205067438.	455378.	48170.	0.00222063	0.00023490	0.99397994	0.98643124	15.08	0.13771148
7.5	197540903.	823097.	5692.	0.00416672	0.00002881	0.99177269	0.98619953	17.40	0.16070613
8.5	187418891.	459378.	0.	0.00245108	0.00000000	0.98764025	0.98617112	19.72	0.18387678
9.5	175367126.	289121.	0.	0.00164866	0.00000000	0.98521947	0.98617112	22.03	0.20707131
10.5	154533570.	178413.	5734.	0.00115453	0.00003710	0.98359518	0.98617112	24.35	0.23026585
11.5	126867011.	642673.	31554.	0.00506572	0.00024872	0.98245959	0.98613453	26.67	0.25343225
12.5	106916865.	250834.	60382.	0.00234607	0.00056475	0.97748272	0.98588926	28.99	0.27644395
13.5	91619986.	217303.	90265.	0.00237179	0.00098522	0.97518948	0.98533247	31.31	0.29923617
14.5	83041513.	289082.	125401.	0.00348117	0.00151010	0.97287654	0.98436171	33.63	0.32175105
15.5	77461669.	101633.	165723.	0.00131204	0.00213941	0.96948979	0.98287522	35.95	0.34393733
16.5	69881075.	75799.	200779.	0.00108469	0.00287315	0.96821778	0.98077245	38.27	0.36575013
17.5	63333967.	136085.	235052.	0.00214869	0.00371131	0.96716757	0.97795454	40.59	0.38715052
18.5	56895380.	39245.	264785.	0.00068977	0.00465390	0.96508942	0.97432505	42.91	0.40810530
19.5	53448850.	129514.	304707.	0.00242314	0.00570090	0.96442373	0.96979064	45.23	0.42858656
20.5	49909911.	312592.	342000.	0.00626312	0.00685234	0.96208680	0.96426196	47.55	0.44857134
21.5	42029387.	149324.	340783.	0.00355285	0.00810820	0.95606113	0.95765451	49.87	0.46804123
22.5	37263802.	106148.	352832.	0.00284856	0.00946848	0.95266439	0.94988966	52.19	0.48698208
23.5	31792443.	247294.	347593.	0.00777839	0.01093319	0.94995067	0.94089564	54.51	0.50538354
24.5	27173359.	377953.	339730.	0.01390895	0.01250232	0.94256159	0.93060865	56.83	0.52323873
25.5	21395826.	50733.	303305.	0.00237116	0.01417588	0.92945154	0.91897388	59.15	0.54054400
26.5	17633564.	63207.	281323.	0.00358447	0.01595386	0.92724766	0.90594662	61.47	0.55729843
27.5	14286401.	42382.	254816.	0.00296660	0.01783627	0.92392397	0.89149327	63.78	0.57350367
28.5	11811188.	30900.	234134.	0.00261616	0.01982310	0.92118306	0.87559236	66.10	0.58916354
29.5	9964220.	9527.	218359.	0.00095612	0.02191435	0.91877309	0.85823541	68.42	0.60428385
30.5	8594509.	32316.	207214.	0.00376008	0.02411003	0.91789463	0.83942773	70.74	0.61887205
31.5	7364585.	250185.	194500.	0.03397136	0.02641014	0.91444328	0.81918910	73.06	0.63293707

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 2 AVG LIFE 43.113630 FIT INDEX 0.001363 VARIANCE 0.091805

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	5210475.	384360.	150138.	0.07376679	0.02881467	0.88337839	0.79755420	75.38	0.64648903
33.5	3983378.	195122.	124774.	0.04898405	0.03132362	0.81821441	0.77457294	77.70	0.65953911
34.5	3172139.	124317.	107653.	0.03919028	0.03393700	0.77813495	0.75031051	80.02	0.67209934
35.5	2789479.	1424.	102248.	0.00051049	0.03665480	0.74763963	0.72484722	82.34	0.68418239
36.5	2100844.	103994.	82935.	0.04950106	0.03947703	0.74725796	0.69827809	84.66	0.69580147
37.5	1395772.	47283.	59186.	0.03387588	0.04240369	0.71026790	0.67071214	86.98	0.70697023
38.5	1150757.	79295.	52284.	0.06890682	0.04543476	0.68620696	0.64227148	89.30	0.71770254
39.5	891348.	61735.	43293.	0.06926027	0.04857026	0.63892262	0.61309002	91.62	0.72801246
40.5	706341.	107752.	36596.	0.15254955	0.05181019	0.59467067	0.58331208	93.94	0.73791412
41.5	525894.	126769.	29005.	0.24105428	0.05515454	0.50395393	0.55309057	96.26	0.74742165
42.5	348200.	102532.	20406.	0.29446295	0.05860332	0.38247368	0.52258511	98.58	0.75654911
43.5	225443.	7314.	14013.	0.03244279	0.06215652	0.26984935	0.49195989	100.90	0.76531039
44.5	218129.	1017.	14356.	0.00466238	0.06581414	0.26109468	0.46138138	103.22	0.77371926
45.5	215500.	211530.	14994.	0.98157773	0.06957619	0.25987736	0.43101596	105.54	0.78178916
46.5	3971.	0.	292.	0.00000000	0.07344266	0.00478753	0.40102751	107.85	0.78953330
47.5	3970.	0.	307.	0.00000000	0.07741356	0.00478753	0.37157498	110.17	0.79696463
TOTAL (EXCEPT AGE 0)		8667655.	8693602.						

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 2 AVG LIFE 43.113630 FIT INDEX 0.001363 VARIANCE 0.091805

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
48.5					0.08148889		0.34281004	112.49	0.80409571
49.5					0.08566863		0.31487483	114.81	0.81093881
50.5					0.08995281		0.28789994	117.13	0.81750578
51.5					0.09434140		0.26200253	119.45	0.82380815
52.5					0.09883442		0.23728484	121.77	0.82985705
53.5					0.10343187		0.21383293	124.09	0.83566324
54.5					0.10813374		0.19171579	126.41	0.84123709
55.5					0.11294004		0.17098485	128.73	0.84658862
56.5					0.11785076		0.15167381	131.05	0.85172744
57.5					0.12286590		0.13379894	133.37	0.85666283
58.5					0.12798547		0.11735961	135.69	0.86140368
59.5					0.13320946		0.10233929	138.01	0.86595857
60.5					0.13853788		0.08870673	140.33	0.87033572
61.5					0.14397072		0.07641748	142.65	0.87454303
62.5					0.14950799		0.06541560	144.97	0.87858813
63.5					0.15514968		0.05563545	147.29	0.88247834
64.5					0.16089580		0.04700363	149.60	0.88622073
65.5					0.16674634		0.03944094	151.92	0.88982214
66.5					0.17270131		0.03286431	154.24	0.89328924
67.5					0.17876070		0.02718860	156.56	0.89662850
68.5					0.18492451		0.02232835	158.88	0.89984635
69.5					0.19119275		0.01819929	161.20	0.90294918
70.5					0.19756542		0.01471972	163.52	0.90594347
71.5					0.20404251		0.01181161	165.84	0.90883590
72.5					0.21062402		0.00940154	168.16	0.91163359
73.5					0.21730996		0.00742135	170.48	0.91434430
74.5					0.22410032		0.00580862	172.80	0.91697687
75.5					0.23099511		0.00450690	175.12	0.91954171
76.5					0.23799432		0.00346583	177.44	0.92205164
77.5					0.24509795		0.00264098	179.76	0.92452297
78.5					0.25230602		0.00199368	182.08	0.92697732
79.5					0.25961850		0.00149066	184.40	0.92944411
80.5					0.26703541		0.00110366	186.72	0.93196448

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 2 AVG LIFE 43.113630 FIT INDEX 0.001363 VARIANCE 0.091805

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
81.5					0.27455675		0.00080894	189.04	0.93459728
82.5					0.28218251		0.00058684	191.35	0.93742819
83.5					0.28991269		0.00042125	193.67	0.94058401
84.5					0.29774730		0.00029912	195.99	0.94425523
85.5					0.30568633		0.00021006	198.31	0.94873169
86.5					0.31372979		0.00014585	200.63	0.95446019
87.5					0.32187767		0.00010009	202.95	0.96213781
88.5					0.33012998		0.00006787	205.27	0.97286542
89.5							0.00004547	207.59	0.98840274

EQUIVALENT H CURVE IS 3.29

EQUIVALENT L CURVE IS 3.00

EQUIVALENT R CURVE IS 3.00

EQUIVALENT S CURVE IS 2.00

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 3 AVG LIFE 39.174570 FIT INDEX 0.001179 VARIANCE 0.048831

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	296198423.	39667.	0.	0.00013392	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	275133837.	154755.	0.	0.00056247	0.00000000	0.99986608	1.00000000	1.28	0.01276338
1.5	256382752.	116218.	0.	0.00045330	0.00000000	0.99930368	1.00000000	3.83	0.03829015
2.5	233379665.	143516.	273356.	0.00061495	0.00117129	0.99885070	1.00000000	6.38	0.06381691
3.5	226110420.	296780.	512702.	0.00131254	0.00226749	0.99823646	0.99882871	8.93	0.08826082
4.5	219031351.	425246.	665435.	0.00194148	0.00303808	0.99692623	0.99656388	11.49	0.11174454
5.5	213199144.	216580.	750235.	0.00101586	0.00351894	0.99499071	0.99353624	14.04	0.13460336
6.5	205067438.	455378.	768166.	0.00222063	0.00374592	0.99397994	0.99004005	16.59	0.15711921
7.5	197540903.	823097.	741743.	0.00416672	0.00375488	0.99177269	0.98633144	19.15	0.17952472
8.5	187418891.	459378.	671277.	0.00245108	0.00358170	0.98764025	0.98262788	21.70	0.20200716
9.5	175367126.	289121.	572085.	0.00164866	0.00326221	0.98521947	0.97910840	24.25	0.22471136
10.5	154533570.	178413.	437686.	0.00115453	0.00283230	0.98359518	0.97591434	26.80	0.24774247
11.5	126867011.	642673.	295324.	0.00506572	0.00232782	0.98245959	0.97315026	29.36	0.27116881
12.5	106916865.	250834.	190807.	0.00234607	0.00178463	0.97748272	0.97088494	31.91	0.29502481
13.5	91619986.	217303.	113480.	0.00237179	0.00123859	0.97518948	0.96915227	34.46	0.31931401
14.5	83041513.	289082.	60252.	0.00348117	0.00072556	0.97287654	0.96795189	37.01	0.34401247
15.5	77461669.	101633.	21799.	0.00131204	0.00028142	0.96948979	0.96724957	39.57	0.36907222
16.5	69881075.	75799.	0.	0.00108469	0.00000000	0.96821778	0.96697738	42.12	0.39442495
17.5	63333967.	136085.	0.	0.00214869	0.00000000	0.96716757	0.96697738	44.67	0.41995174
18.5	56895380.	39245.	0.	0.00068977	0.00000000	0.96508942	0.96697738	47.22	0.44547852
19.5	53448850.	129514.	0.	0.00242314	0.00000000	0.96442373	0.96697738	49.78	0.47100531
20.5	49909911.	312592.	17415.	0.00626312	0.00034894	0.96208680	0.96697738	52.33	0.49653209
21.5	42029387.	149324.	45019.	0.00355285	0.00107112	0.95606113	0.96663996	54.88	0.52188759
22.5	37263802.	106148.	78746.	0.00284856	0.00211322	0.95266439	0.96560457	57.44	0.54691538
23.5	31792443.	247294.	111626.	0.00777839	0.00351107	0.94995067	0.96356404	59.99	0.57150969
24.5	27173359.	377953.	144034.	0.01390895	0.00530056	0.94256159	0.96018089	62.54	0.59557166
25.5	21395826.	50733.	160844.	0.00237116	0.00751753	0.92945154	0.95509140	65.09	0.61901133
26.5	17633564.	63207.	179824.	0.00358447	0.01019785	0.92724766	0.94791147	67.65	0.64174899
27.5	14286401.	42382.	191115.	0.00296660	0.01337738	0.92392397	0.93824481	70.20	0.66371622
28.5	11811188.	30900.	201877.	0.00261616	0.01709198	0.92118306	0.92569356	72.75	0.68485644
29.5	9964220.	9527.	213010.	0.00095612	0.02137752	0.91877309	0.90987162	75.30	0.70512506
30.5	8594509.	32316.	225776.	0.00376008	0.02626985	0.91789463	0.89042082	77.86	0.72448925
31.5	7364585.	250185.	234229.	0.03397136	0.03180484	0.91444328	0.86702959	80.41	0.74292747

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 3 AVG LIFE 39.174570 FIT INDEX 0.001179 VARIANCE 0.048831

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 47.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	5210475.	384360.	198094.	0.07376679	0.03801834	0.88337839	0.83945386	82.96	0.76042876
33.5	3983378.	195122.	179038.	0.04898405	0.04494622	0.81821441	0.80753922	85.51	0.77699188
34.5	3172139.	124317.	166932.	0.03919028	0.05262434	0.77813495	0.77124338	88.07	0.79262421
35.5	2789479.	1424.	170405.	0.00051049	0.06108857	0.74763963	0.73065720	90.62	0.80734075
36.5	2100844.	103994.	147846.	0.04950106	0.07037475	0.74725796	0.68602240	93.17	0.82116292
37.5	1395772.	47283.	112386.	0.03387588	0.08051876	0.71026790	0.63774375	95.73	0.83411752
38.5	1150757.	79295.	105359.	0.06890682	0.09155645	0.68620696	0.58639341	98.28	0.84623568
39.5	891348.	61735.	92276.	0.06926027	0.10352369	0.63892262	0.53270532	100.83	0.85755182
40.5	706341.	107752.	82258.	0.15254955	0.11645633	0.59467067	0.47755770	103.38	0.86810279
41.5	525894.	126769.	68571.	0.24105428	0.13039025	0.50395393	0.42194308	105.94	0.87792700
42.5	348200.	102532.	50615.	0.29446295	0.14536129	0.38247368	0.36692582	108.49	0.88706377
43.5	225443.	7314.	36388.	0.03244279	0.16140532	0.26984935	0.31358901	111.04	0.89555262
44.5	218129.	1017.	38949.	0.00466238	0.17855821	0.26109468	0.26297407	113.59	0.90343286
45.5	215500.	211530.	42422.	0.98157773	0.19685581	0.25987736	0.21601789	116.15	0.91074305
46.5	3971.	0.	859.	0.00000000	0.21633399	0.00478753	0.17349352	118.70	0.91752075
47.5	3970.	0.	941.	0.00000000	0.23702860	0.00478753	0.13596097	121.25	0.92380219
TOTAL (EXCEPT AGE 0)	8667655.	9371200.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 3 AVG LIFE 39.174570 FIT INDEX 0.001179 VARIANCE 0.048831

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
48.5					0.25897551		0.10373433	123.80	0.92962209
49.5					0.28221058		0.07686968	126.36	0.93501355
50.5					0.30676966		0.05517624	128.91	0.94000797
51.5					0.33268863		0.03824985	131.46	0.94463502
52.5					0.36000335		0.02552456	134.02	0.94892272
53.5					0.38874966		0.01633563	136.57	0.95289762
54.5					0.41896344		0.00998516	139.12	0.95658509
55.5					0.45068055		0.00580174	141.67	0.96001020
56.5					0.48393685		0.00318701	144.23	0.96319948
57.5					0.51876819		0.00164470	146.78	0.96618548
58.5					0.55521045		0.00079148	149.33	0.96901911
59.5					0.59329948		0.00035204	151.88	0.97180579
60.5					0.63307114		0.00014318	154.44	0.97482189
61.5					0.67456129		0.00005254	156.99	0.97892922
62.5							0.00001710	159.54	0.98723662

EQUIVALENT H CURVE IS 4.53

EQUIVALENT L CURVE IS 4.00

EQUIVALENT R CURVE IS 4.00

EQUIVALENT S CURVE IS 3.00

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37602 Mains Plastic

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = -0.11177250E-02 0.41372248E-03 (X)

$$\text{QUADRATIC} \quad YEST(I) = 0.41198033E\text{-}02 - 0.93705772E\text{-}03\,(X) + 0.52212300E\text{-}04\,(X^2)$$

$$\text{CUBIC} \quad YEST(I) = -0.32290295E\text{-}02 + 0.22866648E\text{-}02\,(X) - 0.22555679E\text{-}03\,(X^2) + 0.59768811E\text{-}05\,(X^3)$$

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37602 Mains Plastic

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	128.68	0.000182	309.68	1.41	0.50	-0.50	0.50
1987	1991	52.27	0.001356	339.58	1.78	1.50	0.00	1.00
1988	1992	53.10	0.001084	339.94	1.75	1.50	0.00	0.50
1989	1993	55.11	0.000981	340.23	1.76	1.50	0.00	1.00
1990	1994	54.71	0.000946	339.03	1.77	1.50	0.00	1.00
1991	1995	54.87	0.000829	341.74	1.73	1.00	0.00	0.50
1992	1996	75.45	0.000442	357.19	1.54	1.00	-0.50	0.50
1993	1997	75.50	0.000401	356.96	1.54	1.00	-0.50	0.50
1994	1998	82.37	0.000388	358.75	1.52	1.00	-0.50	0.50
1995	1999	84.88	0.000380	356.38	1.55	1.00	-0.50	0.50
1996	2000	90.98	0.000352	351.17	1.63	1.00	-0.50	0.50
1997	2001	105.26	0.000294	351.97	1.61	1.00	-0.50	0.50
1998	2002	118.15	0.000247	337.28	1.61	1.00	-0.50	0.50
1999	2003	94.39	0.000250	351.19	1.62	1.00	-0.50	0.50
2000	2004	101.55	0.000269	363.85	1.46	1.00	-0.50	0.50
2001	2005	108.33	0.000230	367.86	1.35	0.50	SC	0.50
2002	2006	118.89	0.000215	335.18	1.30	0.50	SC	0.50
2003	2007	137.44	0.000259	289.94	1.07	0.00	SC	0.50
2004	2008	249.14	0.000275	159.95	1.31	0.50	SC	0.50
2005	2009	216.84	0.000256	183.78	1.16	0.50	SC	0.50
2006	2010	199.74	0.000249	199.51	1.20	0.50	SC	0.50
2007	2011	52.92	0.002436	324.05	1.98	1.50	0.00	1.00

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37602 Mains Plastic

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	52.92	0.002436	324.05	1.98	1.50	0.00	1.00
2006	2011	55.74	0.002218	325.62	1.95	1.50	0.00	1.00
2005	2011	57.84	0.002067	329.34	1.90	1.50	0.00	1.00
2004	2011	59.68	0.001948	334.26	1.84	1.50	0.00	1.00
2003	2011	60.16	0.001852	334.96	1.82	1.50	0.00	1.00
2002	2011	61.38	0.001775	336.43	1.81	1.50	0.00	1.00
2001	2011	62.58	0.001716	336.35	1.80	1.50	0.00	1.00
2000	2011	63.22	0.001673	337.73	1.80	1.50	0.00	1.00
1999	2011	63.56	0.001637	337.50	1.80	1.50	0.00	1.00
1998	2011	64.00	0.001607	336.73	1.80	1.50	0.00	1.00
1997	2011	64.17	0.001581	337.40	1.79	1.50	0.00	1.00
1996	2011	64.40	0.001560	337.76	1.79	1.50	0.00	1.00
1995	2011	64.49	0.001542	338.84	1.78	1.50	0.00	1.00
1994	2011	64.52	0.001526	338.65	1.77	1.50	0.00	1.00
1993	2011	64.61	0.001512	339.71	1.77	1.50	0.00	1.00
1992	2011	64.70	0.001499	339.24	1.77	1.50	0.00	1.00
1991	2011	64.05	0.001484	339.58	1.77	1.50	0.00	1.00
1990	2011	64.15	0.001474	339.06	1.77	1.50	0.00	1.00
1989	2011	64.28	0.001466	339.91	1.77	1.50	0.00	1.00
1988	2011	64.38	0.001459	339.39	1.77	1.50	0.00	1.00
1987	2011	64.46	0.001453	340.53	1.76	1.50	0.00	1.00
1986	2011	64.49	0.001448	340.39	1.76	1.50	0.00	1.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37602 Mains Plastic

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	62.84	0.000180	234.73	2.68	3.00	1.50	2.00
1987	1991	32.03	0.001237	204.50	3.46	3.00	2.00	3.00
1988	1992	34.16	0.001007	212.25	3.24	3.00	2.00	2.50
1989	1993	35.36	0.000905	213.53	3.22	3.00	2.00	2.50
1990	1994	36.14	0.000876	214.45	3.16	3.00	2.00	2.50
1991	1995	37.92	0.000782	222.85	2.92	3.00	1.50	2.50
1992	1996	55.77	0.000444	253.71	2.36	2.00	1.00	1.50
1993	1997	55.05	0.000400	249.78	2.39	2.00	1.00	1.50
1994	1998	57.96	0.000387	247.60	2.43	2.00	1.00	1.50
1995	1999	55.76	0.000373	237.62	2.61	3.00	1.00	2.00
1996	2000	55.39	0.000336	228.36	2.83	3.00	1.50	2.00
1997	2001	60.86	0.000283	229.23	2.84	3.00	1.50	2.50
1998	2002	63.88	0.000235	227.76	2.91	3.00	1.50	2.50
1999	2003	60.96	0.000238	235.39	2.72	3.00	1.50	2.00
2000	2004	84.12	0.000272	282.34	1.99	1.50	0.00	1.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	39.31	0.002229	199.68	3.32	3.00	2.00	3.00

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37602 Mains Plastic

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	39.31	0.002229	199.68	3.32	3.00	2.00	3.00
2006	2011	40.32	0.002040	199.64	3.35	3.00	2.00	3.00
2005	2011	40.97	0.001912	201.35	3.34	3.00	2.00	3.00
2004	2011	41.45	0.001811	201.46	3.30	3.00	2.00	3.00
2003	2011	41.77	0.001729	204.69	3.30	3.00	2.00	3.00
2002	2011	42.19	0.001661	205.01	3.32	3.00	2.00	3.00
2001	2011	42.57	0.001609	205.52	3.34	3.00	2.00	3.00
2000	2011	42.77	0.001570	204.58	3.35	3.00	2.00	3.00
1999	2011	42.85	0.001535	206.52	3.35	3.00	2.00	3.00
1998	2011	42.94	0.001506	206.09	3.35	3.00	2.00	3.00
1997	2011	43.00	0.001484	205.81	3.34	3.00	2.00	3.00
1996	2011	43.07	0.001466	205.46	3.33	3.00	2.00	3.00
1995	2011	43.11	0.001450	207.62	3.31	3.00	2.00	3.00
1994	2011	43.11	0.001436	207.60	3.31	3.00	2.00	3.00
1993	2011	43.12	0.001423	207.54	3.31	3.00	2.00	3.00
1992	2011	43.16	0.001412	207.39	3.30	3.00	2.00	3.00
1991	2011	43.03	0.001397	207.99	3.29	3.00	2.00	3.00
1990	2011	43.05	0.001388	207.88	3.29	3.00	2.00	3.00
1989	2011	43.07	0.001380	207.80	3.29	3.00	2.00	3.00
1988	2011	43.09	0.001373	207.71	3.29	3.00	2.00	3.00
1987	2011	43.10	0.001367	207.63	3.29	3.00	2.00	3.00
1986	2011	43.11	0.001363	207.59	3.29	3.00	2.00	3.00

PGS - 2011 CASE

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37602 Mains Plastic

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	58.17	0.000182	212.32	2.96	3.00	1.50	2.50
1987	1991	28.85	0.001175	161.15	4.93	4.00	4.00	4.00
1988	1992	30.47	0.000968	165.72	4.40	4.00	3.00	4.00
1989	1993	31.91	0.000883	170.77	4.22	4.00	3.00	4.00
1990	1994	32.64	0.000854	173.09	4.12	4.00	3.00	4.00
1991	1995	34.35	0.000775	179.06	3.67	4.00	3.00	3.00
1992	1996	40.96	0.000433	177.01	3.66	4.00	3.00	3.00
1993	1997	41.56	0.000388	176.83	3.61	4.00	3.00	3.00
1994	1998	45.11	0.000385	182.90	3.46	3.00	2.00	3.00
1995	1999	43.02	0.000354	173.17	3.82	4.00	3.00	3.00
1996	2000	43.81	0.000311	172.32	4.08	4.00	3.00	3.00
1997	2001	47.38	0.000270	174.12	4.06	4.00	3.00	3.00
1998	2002	50.54	0.000227	177.07	4.04	4.00	3.00	3.00
1999	2003	49.22	0.000229	179.79	3.75	4.00	3.00	3.00
2000	2004	56.95	0.000272	187.00	3.26	3.00	2.00	2.50
2001	2005	61.25	0.000231	183.69	3.19	3.00	2.00	2.50
2002	2006	67.51	0.000216	185.89	3.13	3.00	2.00	2.50
2003	2007	62.53	0.000254	176.71	3.34	3.00	2.00	3.00
2004	2008	60.73	0.000255	167.13	3.68	4.00	3.00	3.00
2005	2009	59.54	0.000225	165.43	3.84	4.00	3.00	3.00
2006	2010	62.18	0.000227	168.06	3.88	4.00	3.00	3.00
2007	2011	37.91	0.001897	154.31	4.54	4.00	3.00	4.00

PGS - 2011 CASE

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37602 Mains Plastic

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	37.91	0.001897	154.31	4.54	4.00	3.00	4.00
2006	2011	38.45	0.001745	154.74	4.65	4.00	3.00	4.00
2005	2011	38.71	0.001641	156.30	4.63	4.00	3.00	4.00
2004	2011	38.83	0.001559	155.79	4.53	4.00	3.00	4.00
2003	2011	38.88	0.001491	155.61	4.49	4.00	3.00	4.00
2002	2011	38.99	0.001431	157.75	4.50	4.00	3.00	4.00
2001	2011	39.10	0.001387	157.29	4.52	4.00	3.00	4.00
2000	2011	39.15	0.001353	157.07	4.54	4.00	3.00	4.00
1999	2011	39.17	0.001323	157.02	4.55	4.00	3.00	4.00
1998	2011	39.21	0.001298	156.85	4.57	4.00	3.00	4.00
1997	2011	39.20	0.001277	156.89	4.56	4.00	3.00	4.00
1996	2011	39.21	0.001261	156.84	4.56	4.00	3.00	4.00
1995	2011	39.20	0.001247	156.89	4.54	4.00	3.00	4.00
1994	2011	39.19	0.001236	156.92	4.54	4.00	3.00	4.00
1993	2011	39.20	0.001225	156.89	4.55	4.00	3.00	4.00
1992	2011	39.19	0.001214	156.91	4.54	4.00	3.00	4.00
1991	2011	39.15	0.001208	157.09	4.52	4.00	3.00	4.00
1990	2011	39.16	0.001200	157.05	4.52	4.00	3.00	4.00
1989	2011	39.17	0.001193	157.03	4.52	4.00	3.00	4.00
1988	2011	39.17	0.001187	159.57	4.52	4.00	3.00	4.00
1987	2011	39.17	0.001183	159.55	4.53	4.00	3.00	4.00
1986	2011	39.17	0.001179	159.54	4.53	4.00	3.00	4.00

Peoples Gas System
Net Salvage Analysis
Account - 376.02 - Mains Plastic
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	262,591	(187,338)	(71)	0	0	(187,338)	(71)
2009	544,276	(458,324)	(84)	0	0	(458,324)	(84)
2008	644,690	(291,493)	(45)	2,250	0	(289,243)	(45)
2007	685,402	(202,999)	(30)	0	0	(202,999)	(30)
2006	130,237	(205,657)	(158)	10,000	8	(195,657)	(150)
2005	479,226	(41,780)	(9)	101,532	21	59,753	12
2004	671,568	(145,453)	(22)	0	0	(145,453)	(22)
2003	497,814	(30,774)	(6)	0	0	(30,774)	(6)
2002	189,847	(91,822)	(48)	0	0	(91,822)	(48)
2001	47,608	(1,230)	(3)	0	0	(1,230)	(3)
2000	81,733	(29,048)	(36)	0	0	(29,048)	(36)
1999	166,171	(8,944)	(5)	0	0	(8,944)	(5)
1998	88,266	(13,856)	(16)	1,894	2	(11,962)	(14)
1997	246,454	(14,513)	(6)	0	0	(14,513)	(6)
1996	137,264	(3,916)	(3)	0	0	(3,916)	(3)
1995	293,240	(16,479)	(6)	0	0	(16,479)	(6)
1994	153,861	(50,289)	(33)	0	0	(50,289)	(33)
1993	87,167	(2,727)	(3)	0	0	(2,727)	(3)
1992	139,310	(2,404)	(2)	0	0	(2,404)	(2)
1991	226,052	(14,275)	(6)	0	0	(14,275)	(6)
1990	29,802	(7,283)	(24)	0	0	(7,283)	(24)
1989	56,308	(3,076)	(5)	0	0	(3,076)	(5)
1988	55,509	(3,560)	(6)	0	0	(3,560)	(6)
1987	26,484	(4,901)	(19)	0	0	(4,901)	(19)
1986	43,956	(1,917)	(4)	0	0	(1,917)	(4)
1985	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	5,984,837	**(1,834,057)**	**(31)**	**115,676**	**2**	**(1,718,380)**	**(29)**

Peoples Gas System
Net Salvage Analysis
Account - 376.02 - Mains Plastic
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	2,267,196	(1,345,810)	(59)	12,250	1	(1,333,560)	(59)
2009	2,483,831	(1,200,252)	(48)	113,782	5	(1,086,469)	(44)
2008	2,611,123	(887,380)	(34)	113,782	4	(773,598)	(30)
2007	2,464,248	(626,662)	(25)	111,532	5	(515,130)	(21)
2006	1,968,693	(515,485)	(26)	111,532	6	(403,953)	(21)
2005	1,886,064	(311,059)	(16)	101,532	5	(209,526)	(11)
2004	1,488,571	(298,327)	(20)	0	0	(298,327)	(20)
2003	983,174	(161,818)	(16)	0	0	(161,818)	(16)
2002	573,626	(144,899)	(25)	1,894	0	(143,005)	(25)
2001	630,233	(67,590)	(11)	1,894	0	(65,696)	(10)
2000	719,888	(70,276)	(10)	1,894	0	(68,382)	(9)
1999	931,395	(57,708)	(6)	1,894	0	(55,814)	(6)
1998	919,085	(99,054)	(11)	1,894	0	(97,160)	(11)
1997	917,986	(87,925)	(10)	0	0	(87,925)	(10)
1996	810,842	(75,816)	(9)	0	0	(75,816)	(9)
1995	899,630	(86,175)	(10)	0	0	(86,175)	(10)
1994	636,192	(76,979)	(12)	0	0	(76,979)	(12)
1993	538,639	(29,766)	(6)	0	0	(29,766)	(6)
1992	506,981	(30,598)	(6)	0	0	(30,598)	(6)
1991	394,155	(33,095)	(8)	0	0	(33,095)	(8)
1990	212,059	(20,737)	(10)	0	0	(20,737)	(10)
1989	182,257	(13,454)	(7)	0	0	(13,454)	(7)
1988	125,949	(10,378)	(8)	0	0	(10,378)	(8)
1987	70,440	(6,818)	(10)	0	0	(6,818)	(10)
1986	43,956	(1,917)	(4)	0	0	(1,917)	(4)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800. Meas & Reg Station Eqp Gen

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 31.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: -5.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	2455000.	0.011959	29360.	2425640.
2010	1.50	253232.	0.035707	9042.	244190.
2009	2.50	545368.	0.059216	32295.	513073.
2008	3.50	164158.	0.082502	13543.	150615.
2007	4.50	400323.	0.105567	42261.	358062.
2006	5.50	154716.	0.128437	19871.	134845.
2005	6.50	181174.	0.151107	27377.	153797.
2004	7.50	158787.	0.173584	27563.	131224.
2003	8.50	378014.	0.195902	74054.	303960.
2002	9.50	381422.	0.218055	83171.	298251.
2001	10.50	872849.	0.240059	209535.	663314.
2000	11.50	184769.	0.261898	48391.	136378.
1999	12.50	487153.	0.283554	138134.	349019.
1998	13.50	273055.	0.305026	83289.	189766.
1997	14.50	128333.	0.326282	41873.	86460.
1996	15.50	103024.	0.347309	35781.	67243.
1995	16.50	125775.	0.368082	46295.	79480.
1994	17.50	203626.	0.388583	79126.	124500.
1993	18.50	199177.	0.408791	81422.	117755.
1992	19.50	94187.	0.428699	40378.	53809.
1991	20.50	70843.	0.448287	31758.	39085.
1990	21.50	42559.	0.467531	19898.	22661.
1989	22.50	72280.	0.486443	35160.	37120.
1988	23.50	23150.	0.505005	11691.	11459.
1987	24.50	108725.	0.523207	56886.	51839.
1986	25.50	87264.	0.541046	47214.	40050.
1985	26.50	29628.	0.558524	16548.	13080.
1984	27.50	10599.	0.575632	6101.	4498.
1983	28.50	21832.	0.592386	12933.	8899.
1982	29.50	32699.	0.608776	19906.	12793.
1981	30.50	36653.	0.624804	22901.	13752.
1980	31.50	29326.	0.640477	18783.	10543.
1979	32.50	35967.	0.655805	23587.	12380.
1978	33.50	2203.	0.670791	1478.	725.
1977	34.50	27172.	0.685435	18625.	8547.
1976	35.50	35518.	0.699745	24854.	10664.
1975	36.50	19909.	0.713738	14210.	5699.
1974	37.50	28633.	0.727410	20828.	7805.
1973	38.50	14840.	0.740775	10993.	3847.
1972	39.50	9104.	0.753838	6863.	2241.
1971	40.50	8236.	0.766609	6314.	1922.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800. Meas & Reg Station Eqp Gen

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 31.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: -5.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	6190.	0.779088	4823.	1367.
1969	42.50	17326.	0.791291	13710.	3616.
1968	43.50	22894.	0.803221	18389.	4505.
1967	44.50	5001.	0.814885	4075.	926.
1966	45.50	6223.	0.826286	5142.	1081.
1965	46.50	5638.	0.837417	4721.	917.
1964	47.50	7000.	0.848330	5938.	1062.
1963	48.50	1127.	0.858999	968.	159.
1962	49.50	6090.	0.869438	5295.	795.
1961	50.50	3072.	0.879648	2702.	370.
1960	51.50	17701.	0.889670	15748.	1953.
1959	52.50	26431.	0.899531	23776.	2655.
1958	53.50	6945.	0.909286	6315.	630.
1957	54.50	456.	0.918981	419.	37.
1956	55.50	826.	0.928786	767.	59.
1955	56.50	0.	0.939008	0.	0.
1954	57.50	826.	0.949976	785.	41.
SUBTOTAL :			0.197549	1703862.	6921166.
NET SALVAGE: -5.0%				85193.	-85193.
TOTAL :		8625028.	0.207426	1789055.	6835973.

WEIGHTED AGE: 9.1 YEARS
REMAINING LIFE: 24.9 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800. Meas & Reg Station Eqp Gen

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 31.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: -5.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	2455000.	0.032258	79193.
2010	1.50 - 2.50	253232.	0.032258	8169.
2009	2.50 - 3.50	545368.	0.032258	17592.
2008	3.50 - 4.50	164158.	0.032258	5295.
2007	4.50 - 5.50	400323.	0.032258	12914.
2006	5.50 - 6.50	154716.	0.032258	4991.
2005	6.50 - 7.50	181174.	0.032258	5844.
2004	7.50 - 8.50	158787.	0.032258	5122.
2003	8.50 - 9.50	378014.	0.032258	12194.
2002	9.50 - 10.50	381422.	0.032258	12304.
2001	10.50 - 11.50	872849.	0.032258	28156.
2000	11.50 - 12.50	184769.	0.032258	5960.
1999	12.50 - 13.50	487153.	0.032258	15715.
1998	13.50 - 14.50	273055.	0.032258	8808.
1997	14.50 - 15.50	128333.	0.032258	4140.
1996	15.50 - 16.50	103024.	0.032258	3323.
1995	16.50 - 17.50	125775.	0.032258	4057.
1994	17.50 - 18.50	203626.	0.032258	6569.
1993	18.50 - 19.50	199177.	0.032258	6425.
1992	19.50 - 20.50	94187.	0.032258	3038.
1991	20.50 - 21.50	70843.	0.032258	2285.
1990	21.50 - 22.50	42559.	0.032258	1373.
1989	22.50 - 23.50	72280.	0.032258	2332.
1988	23.50 - 24.50	23150.	0.032258	747.
1987	24.50 - 25.50	108725.	0.032258	3507.
1986	25.50 - 26.50	87264.	0.032258	2815.
1985	26.50 - 27.50	29628.	0.032258	956.
1984	27.50 - 28.50	10599.	0.032258	342.
1983	28.50 - 29.50	21832.	0.032258	704.
1982	29.50 - 30.50	32699.	0.032258	1055.
1981	30.50 - 31.50	36653.	0.032258	1182.
1980	31.50 - 32.50	29326.	0.032258	946.
1979	32.50 - 33.50	35967.	0.032258	1160.
1978	33.50 - 34.50	2203.	0.032258	71.
1977	34.50 - 35.50	27172.	0.032258	877.
1976	35.50 - 36.50	35518.	0.032258	1146.
1975	36.50 - 37.50	19909.	0.032258	642.
1974	37.50 - 38.50	28633.	0.032258	924.
1973	38.50 - 39.50	14840.	0.032258	479.
1972	39.50 - 40.50	9104.	0.032258	294.
1971	40.50 - 41.50	8236.	0.032258	266.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800. Meas & Reg Station Eqp Gen

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 31.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: -5.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	6190.	0.032258	200.
1969	42.50 - 43.50	17326.	0.032258	559.
1968	43.50 - 44.50	22894.	0.032258	739.
1967	44.50 - 45.50	5001.	0.032258	161.
1966	45.50 - 46.50	6223.	0.032258	201.
1965	46.50 - 47.50	5638.	0.032258	182.
1964	47.50 - 48.50	7000.	0.032258	226.
1963	48.50 - 49.50	1127.	0.032258	36.
1962	49.50 - 50.50	6090.	0.032258	196.
1961	50.50 - 51.50	3072.	0.032258	99.
1960	51.50 - 52.50	17701.	0.032258	571.
1959	52.50 - 53.50	26431.	0.032258	853.
1958	53.50 - 54.50	6945.	0.032258	224.
1957	54.50 - 55.50	456.	0.032258	15.
1956	55.50 - 56.50	826.	0.032258	27.
1955	56.50 - 57.50	0.	0.032258	0.
1954	57.50 - 58.50	826.	0.032258	27.
SUBTOTAL :		8625028.	0.032258	278225.
NET SALVAGE: -5.0 %				13911.
TOTAL :		8625028.	0.033871	292136.

MONTHLY RATE: 0.002823

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800. Meas & Reg Station Eqp Gen

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 31.0 YRS CURVE: IOWA R1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	2455000.	30.6	75195370.
2010	1.50	253232.	29.9	7569940.
2009	2.50	545368.	29.2	15905393.
2008	3.50	164158.	28.4	4669089.
2007	4.50	400323.	27.7	11100003.
2006	5.50	154716.	27.0	4180218.
2005	6.50	181174.	26.3	4767753.
2004	7.50	158787.	25.6	4067977.
2003	8.50	378014.	24.9	9422837.
2002	9.50	381422.	24.2	9245849.
2001	10.50	872849.	23.6	20562868.
2000	11.50	184769.	22.9	4227762.
1999	12.50	487153.	22.2	10819664.
1998	13.50	273055.	21.5	5882795.
1997	14.50	128333.	20.9	2680287.
1996	15.50	103024.	20.2	2084544.
1995	16.50	125775.	19.6	2463883.
1994	17.50	203626.	19.0	3859540.
1993	18.50	199177.	18.3	3650436.
1992	19.50	94187.	17.7	1668095.
1991	20.50	70843.	17.1	1211645.
1990	21.50	42559.	16.5	702506.
1989	22.50	72280.	15.9	1150725.
1988	23.50	23150.	15.3	355236.
1987	24.50	108725.	14.8	1607030.
1986	25.50	87264.	14.2	1241564.
1985	26.50	29628.	13.7	405484.
1984	27.50	10599.	13.2	139435.
1983	28.50	21832.	12.6	275872.
1982	29.50	32699.	12.1	396574.
1981	30.50	36653.	11.6	426317.
1980	31.50	29326.	11.1	326847.
1979	32.50	35967.	10.7	383773.
1978	33.50	2203.	10.2	22483.
1977	34.50	27172.	9.8	264970.
1976	35.50	35518.	9.3	330600.
1975	36.50	19909.	8.9	176676.
1974	37.50	28633.	8.5	241959.
1973	38.50	14840.	8.0	119255.
1972	39.50	9104.	7.6	69473.
1971	40.50	8236.	7.2	59589.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800. Meas & Reg Station Eqp Gen

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 31.0 YRS CURVE: IOWA R1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	6190.	6.8	42391.
1969	42.50	17326.	6.5	112099.
1968	43.50	22894.	6.1	139658.
1967	44.50	5001.	5.7	28699.
1966	45.50	6223.	5.4	33512.
1965	46.50	5638.	5.0	28416.
1964	47.50	7000.	4.7	32913.
1963	48.50	1127.	4.4	4926.
1962	49.50	6090.	4.0	24649.
1961	50.50	3072.	3.7	11461.
1960	51.50	17701.	3.4	60542.
1959	52.50	26431.	3.1	82321.
1958	53.50	6945.	2.8	19530.
1957	54.50	456.	2.5	1145.
1956	55.50	826.	2.2	1824.
1955	56.50	0.	1.9	0.
1954	57.50	826.	1.6	1281.
TOTAL:		8625028.	24.9	214557683.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800. Meas & Reg Station Eqp Gen

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 31.0 YEARS CURVE: IOWA R1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0161	99.58142	0.41858	49.89535	0.032258	1.60952	1.19093	0.011959
1.50	0.0484	98.71703	0.86439	99.14922	0.032258	3.19834	3.52489	0.035707
2.50	0.0806	97.81449	0.90255	98.26576	0.032258	3.16984	5.79218	0.059216
3.50	0.1129	96.87448	0.94000	97.34448	0.032258	3.14012	7.99230	0.082502
4.50	0.1452	95.89652	0.97796	96.38550	0.032258	3.10919	10.12352	0.105567
5.50	0.1774	94.88232	1.01419	95.38942	0.032258	3.07706	12.18638	0.128437
6.50	0.2097	93.83064	1.05168	94.35648	0.032258	3.04374	14.17844	0.151107
7.50	0.2419	92.74142	1.08922	93.28603	0.032258	3.00921	16.09842	0.173584
8.50	0.2742	91.61755	1.12387	92.17949	0.032258	2.97351	17.94806	0.195902
9.50	0.3065	90.45752	1.16003	91.03753	0.032258	2.93667	19.72470	0.218055
10.50	0.3387	89.26238	1.19513	89.85995	0.032258	2.89869	21.42826	0.240059
11.50	0.3710	88.02926	1.23313	88.64582	0.032258	2.85952	23.05465	0.261898
12.50	0.4032	86.75532	1.27394	87.39229	0.032258	2.81909	24.59980	0.283554
13.50	0.4355	85.43942	1.31590	86.09737	0.032258	2.77731	26.06122	0.305026
14.50	0.4677	84.07687	1.36255	84.75815	0.032258	2.73411	27.43278	0.326282
15.50	0.5000	82.66500	1.41187	83.37094	0.032258	2.68937	28.71028	0.347309
16.50	0.5323	81.20000	1.46501	81.93250	0.032258	2.64296	29.88824	0.368082
17.50	0.5645	79.67877	1.52122	80.43938	0.032258	2.59480	30.96181	0.388583
18.50	0.5968	78.09797	1.58080	78.88837	0.032258	2.54477	31.92578	0.408791
19.50	0.6290	76.45603	1.64193	77.27700	0.032258	2.49279	32.77663	0.428699
20.50	0.6613	74.75006	1.70597	75.60305	0.032258	2.43879	33.50945	0.448287
21.50	0.6935	72.97694	1.77313	73.86350	0.032258	2.38268	34.11900	0.467531
22.50	0.7258	71.13822	1.83871	72.05758	0.032258	2.32442	34.60471	0.486443
23.50	0.7581	69.23194	1.90629	70.18508	0.032258	2.26402	34.96244	0.505005
24.50	0.7903	67.25784	1.97410	68.24489	0.032258	2.20143	35.18977	0.523207
25.50	0.8226	65.21655	2.04129	66.23719	0.032258	2.13667	35.28515	0.541046
26.50	0.8548	63.11019	2.10635	64.16337	0.032258	2.06977	35.24857	0.558524
27.50	0.8871	60.93971	2.17048	62.02495	0.032258	2.00079	35.07888	0.575632
28.50	0.9194	58.71003	2.22968	59.82487	0.032258	1.92982	34.77902	0.592386
29.50	0.9516	56.42303	2.28700	57.56653	0.032258	1.85697	34.34899	0.608776
30.50	0.9839	54.08287	2.34016	55.25295	0.032258	1.78234	33.79117	0.624804
31.50	1.0161	51.69516	2.38771	52.88902	0.032258	1.70609	33.10955	0.640477
32.50	1.0484	49.26626	2.42890	50.48071	0.032258	1.62840	32.30904	0.655805
33.50	1.0806	46.80232	2.46394	48.03429	0.032258	1.54948	31.39459	0.670791
34.50	1.1129	44.30942	2.49290	45.55587	0.032258	1.46953	30.37122	0.685435
35.50	1.1452	41.79590	2.51352	43.05266	0.032258	1.38879	29.24649	0.699745
36.50	1.1774	39.27132	2.52458	40.53361	0.032258	1.30753	28.02944	0.713738
37.50	1.2097	36.74329	2.52804	38.00731	0.032258	1.22603	26.72743	0.727410
38.50	1.2419	34.22222	2.52107	35.48276	0.032258	1.14460	25.35096	0.740775

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800. Meas & Reg Station Eqp Gen

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 31.0 YEARS CURVE: IOWA R1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.2742	31.71784	2.50438	32.97003	0.032258	1.06354	23.91012	0.753838
40.50	1.3065	29.24074	2.47710	30.47929	0.032258	0.98320	22.41622	0.766609
41.50	1.3387	26.80090	2.43984	28.02082	0.032258	0.90389	20.88027	0.779088
42.50	1.3710	24.41035	2.39055	25.60563	0.032258	0.82598	19.31571	0.791291
43.50	1.4032	22.07964	2.33071	23.24500	0.032258	0.74983	17.73483	0.803221
44.50	1.4355	19.82016	2.25948	20.94990	0.032258	0.67580	16.15114	0.814885
45.50	1.4677	17.64271	2.17745	18.73143	0.032258	0.60424	14.57793	0.826286
46.50	1.5000	15.55700	2.08571	16.59985	0.032258	0.53548	13.02769	0.837417
47.50	1.5323	13.57810	1.97890	14.56755	0.032258	0.46992	11.51871	0.848330
48.50	1.5645	11.71255	1.86555	12.64532	0.032258	0.40791	10.06107	0.858999
49.50	1.5968	9.97039	1.74216	10.84147	0.032258	0.34972	8.66863	0.869438
50.50	1.6290	8.35974	1.61065	9.16507	0.032258	0.29565	7.35363	0.879648
51.50	1.6613	6.88978	1.46997	7.62476	0.032258	0.24596	6.12962	0.889670
52.50	1.6935	5.56639	1.32339	6.22808	0.032258	0.20090	5.00714	0.899531
53.50	1.7258	4.39400	1.17239	4.98019	0.032258	0.16065	3.99540	0.909286
54.50	1.7581	3.37348	1.02052	3.88374	0.032258	0.12528	3.10017	0.918981
55.50	1.7903	2.50629	0.86719	2.93989	0.032258	0.09483	2.32781	0.928786
56.50	1.8226	1.79016	0.71613	2.14823	0.032258	0.06930	1.68098	0.939008
57.50	1.8548	1.21403	0.57613	1.50210	0.032258	0.04845	1.15330	0.949976
58.50	1.8871	0.76258	0.45145	0.98831	0.032258	0.03188	0.73373	0.962168
59.50	1.9194	0.41426	0.34832	0.58842	0.032258	0.01898	0.40439	0.976177
60.50	1.9516	0.17013	0.24413	0.29219	0.032258	0.00943	0.16969	0.997394
61.50	1.9839	0.03332	0.13681	0.10173	0.032258	0.00328	0.03616	1.000000
62.50	2.0161	0.00000	0.03332	0.01666	0.032258	0.00054	0.00000	1.000000
		3100.02225	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	2455000.	0.	0.	0.	0.	0.	0.	0.	0
2010	253232.	0.	0.	0.	0.	0.	0.	0.	0
2009	545368.	0.	0.	0.	0.	0.	0.	0.	0
2008	164158.	0.	0.	0.	0.	0.	0.	0.	0
2007	400323.	0.	0.	0.	0.	0.	0.	0.	0
2006	154716.	0.	0.	0.	0.	0.	0.	0.	0
2005	181174.	66000.	0.	0.	0.	0.	0.	0.	0
2004	158787.	0.	0.	0.	0.	0.	0.	0.	0
2003	378014.	0.	0.	0.	0.	0.	0.	0.	0
2002	381422.	0.	0.	0.	0.	0.	0.	0.	0
2001	872849.	0.	0.	0.	5413.	9589.	0.	19927.	0
2000	184769.	2248.	921.	0.	0.	921.	0.	889.	0
1999	487153.	0.	0.	0.	0.	0.	0.	7519.	0
1998	273055.	0.	0.	0.	0.	3690.	0.	0.	0
1997	128333.	0.	0.	1385.	0.	8603.	16699.	0.	5037
1996	103024.	0.	13526.	0.	0.	0.	6027.	745.	5787
1995	125775.	0.	0.	0.	0.	0.	0.	0.	6350
1994	203626.	0.	0.	0.	0.	0.	0.	0.	0
1993	199177.	0.	0.	3500.	0.	0.	0.	0.	0
1992	94187.	0.	0.	0.	0.	0.	0.	0.	0
1991	70843.	0.	0.	0.	0.	0.	0.	0.	0
1990	42559.	0.	0.	0.	0.	0.	0.	0.	0
1989	72280.	0.	0.	0.	0.	0.	8520.	0.	0
1988	23150.	0.	0.	0.	0.	0.	0.	0.	0
1987	108725.	55496.	0.	0.	0.	0.	0.	0.	0
1986	87264.	0.	0.	0.	0.	0.	0.	0.	0
1985	29628.	0.	0.	233.	0.	2785.	0.	0.	137
1984	10599.	110004.	0.	2565.	0.	0.	0.	7067.	0
1983	21832.	0.	0.	0.	0.	0.	0.	0.	0
1982	32699.	0.	0.	0.	0.	6980.	8006.	289.	0
1981	36653.	0.	0.	7982.	0.	0.	0.	0.	0
1980	29326.	2748.	147.	0.	1143.	0.	0.	1143.	0
1979	35967.	0.	0.	0.	0.	0.	0.	31.	0
1978	2203.	2748.	0.	159.	0.	0.	0.	0.	0
1977	27172.	0.	0.	0.	0.	0.	25.	0.	0
1976	35518.	0.	0.	0.	0.	0.	0.	6058.	0
1975	19909.	0.	0.	401.	0.	0.	551.	468.	0
1974	28633.	0.	962.	1227.	0.	0.	163.	593.	0
1973	14840.	0.	0.	2020.	0.	0.	182.	0.	0
1972	9104.	0.	0.	25.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	8236.	0.	0.	0.	0.	0.	0.	0.	0
1970	6190.	0.	0.	1467.	0.	0.	0.	0.	0
1969	17326.	0.	0.	1540.	0.	0.	0.	591.	0
1968	22894.	0.	0.	519.	0.	1189.	0.	0.	0
1967	5001.	0.	123.	206.	0.	0.	0.	0.	0
1966	6223.	0.	0.	0.	0.	408.	311.	53.	0
1965	5638.	0.	0.	658.	0.	0.	0.	0.	0
1964	7000.	0.	0.	4282.	0.	0.	0.	0.	2329
1963	1127.	0.	0.	144.	0.	43.	0.	0.	0
1962	6090.	0.	0.	0.	0.	0.	0.	1970.	0
1961	3072.	0.	0.	0.	0.	0.	0.	0.	0
1960	17701.	6600.	0.	144.	0.	994.	0.	0.	0
1959	26431.	24204.	0.	4204.	0.	0.	0.	4286.	0
1958	6945.	0.	0.	416.	0.	0.	0.	0.	0
1957	456.	0.	0.	0.	0.	0.	0.	0.	0
1956	826.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	8624202.	270048.	15679.	33077.	6556.	35202.	40484.	51629.	19640

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	2455000.	0.	0.	0.	0.	0.	0.	0.	0
2010	253232.	0.	0.	0.	0.	0.	0.	0.	0
2009	545368.	0.	0.	0.	0.	0.	0.	0.	0
2008	164158.	0.	0.	0.	0.	0.	0.	0.	0
2007	400323.	0.	0.	0.	0.	0.	0.	0.	0
2006	154716.	0.	0.	0.	0.	0.	0.	0.	0
2005	181174.	0.	0.	0.	0.	0.	0.	0.	0
2004	158787.	0.	0.	0.	0.	0.	0.	0.	0
2003	378014.	0.	0.	0.	0.	0.	0.	0.	0
2002	381422.	0.	0.	0.	0.	0.	0.	0.	0
2001	872849.	0.	0.	0.	0.	0.	0.	0.	0
2000	184769.	0.	0.	0.	0.	0.	0.	0.	0
1999	487153.	0.	0.	0.	0.	0.	0.	0.	0
1998	273055.	0.	0.	0.	0.	0.	0.	0.	0
1997	128333.	8813.	0.	0.	0.	0.	0.	1565.	0
1996	103024.	1764.	0.	0.	0.	0.	0.	0.	0
1995	125775.	0.	0.	10354.	0.	0.	0.	0.	0
1994	203626.	4487.	0.	8775.	0.	0.	0.	0.	0
1993	199177.	7460.	0.	3177.	0.	0.	0.	0.	0
1992	94187.	0.	0.	0.	0.	0.	1611.	0.	0
1991	70843.	104950.	0.	0.	846.	0.	0.	0.	0
1990	42559.	0.	21193.	0.	0.	0.	0.	0.	0
1989	72280.	0.	0.	0.	0.	0.	0.	0.	0
1988	23150.	1461.	0.	0.	0.	0.	0.	7186.	0
1987	108725.	0.	0.	18221.	0.	0.	0.	0.	0
1986	87264.	0.	0.	0.	10863.	0.	0.	0.	0
1985	29628.	0.	1241.	225.	0.	0.	0.	0.	0
1984	10599.	0.	0.	290.	0.	0.	0.	0.	0
1983	21832.	0.	0.	392.	807.	0.	0.	0.	0
1982	32699.	0.	0.	0.	46.	0.	0.	0.	0
1981	36653.	0.	4135.	2351.	474.	0.	0.	0.	0
1980	29326.	0.	0.	197.	1037.	0.	0.	0.	0
1979	35967.	0.	0.	0.	926.	0.	0.	0.	0
1978	2203.	0.	0.	0.	0.	0.	0.	0.	0
1977	27172.	25.	0.	0.	300.	0.	0.	25.	0
1976	35518.	0.	0.	0.	692.	0.	0.	0.	0
1975	19909.	0.	259.	0.	1562.	0.	217.	0.	259
1974	28633.	0.	816.	3661.	1375.	0.	0.	69.	0
1973	14840.	0.	0.	0.	364.	0.	0.	0.	0
1972	9104.	0.	0.	222.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
1971	8236.	1306.	0.	0.	188.	0.	782.	0.	0
1970	6190.	0.	0.	192.	1736.	0.	584.	0.	39
1969	17326.	54.	0.	0.	10732.	0.	0.	820.	467
1968	22894.	1136.	0.	845.	502.	0.	0.	1136.	0
1967	5001.	0.	0.	123.	0.	0.	0.	0.	0
1966	6223.	0.	0.	0.	2804.	0.	0.	0.	0
1965	5638.	0.	0.	0.	0.	0.	412.	0.	0
1964	7000.	0.	1158.	1169.	524.	0.	755.	249.	254
1963	1127.	0.	0.	1538.	827.	0.	744.	0.	0
1962	6090.	0.	0.	0.	1101.	0.	0.	0.	0
1961	3072.	0.	0.	0.	0.	0.	0.	0.	0
1960	17701.	0.	4236.	1636.	632.	0.	0.	0.	0
1959	26431.	0.	408.	0.	14862.	0.	0.	559.	1630
1958	6945.	0.	0.	0.	763.	0.	0.	0.	416
1957	456.	0.	0.	0.	0.	0.	0.	0.	0
1956	826.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	8624202.	131456.	33446.	53368.	53963.	0.	5105.	11609.	3065

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	2455000.	0.	0.	0.	0.	0.	0.	0.	0
2010	253232.	0.	0.	0.	0.	0.	0.	0.	0
2009	545368.	0.	0.	0.	0.	0.	0.	0.	0
2008	164158.	0.	0.	0.	0.	0.	0.	0.	0
2007	400323.	0.	0.	0.	0.	0.	0.	0.	0
2006	154716.	0.	0.	0.	0.	0.	0.	0.	0
2005	181174.	0.	0.	0.	0.	0.	0.	0.	0
2004	158787.	0.	0.	0.	0.	0.	0.	0.	0
2003	378014.	0.	0.	0.	0.	0.	0.	0.	0
2002	381422.	0.	0.	0.	0.	0.	0.	0.	0
2001	872849.	0.	0.	0.	0.	0.	0.	0.	0
2000	184769.	0.	0.	0.	0.	0.	0.	0.	0
1999	487153.	0.	0.	0.	0.	0.	0.	0.	0
1998	273055.	0.	0.	0.	0.	0.	0.	0.	0
1997	128333.	0.	0.	0.	0.	0.	0.	0.	0
1996	103024.	0.	0.	0.	0.	0.	0.	0.	0
1995	125775.	0.	0.	0.	0.	0.	0.	0.	0
1994	203626.	0.	0.	0.	0.	0.	0.	0.	0
1993	199177.	0.	0.	0.	0.	0.	0.	0.	0
1992	94187.	0.	0.	0.	0.	0.	0.	0.	0
1991	70843.	0.	0.	0.	0.	0.	0.	0.	0
1990	42559.	64887.	0.	0.	0.	0.	0.	0.	0
1989	72280.	0.	0.	0.	0.	2507.	0.	0.	0
1988	23150.	0.	0.	0.	0.	0.	0.	0.	0
1987	108725.	0.	0.	0.	0.	0.	0.	0.	0
1986	87264.	20540.	0.	0.	0.	0.	0.	0.	0
1985	29628.	274.	10457.	0.	0.	0.	0.	636.	0
1984	10599.	0.	2900.	0.	0.	0.	0.	0.	0
1983	21832.	0.	0.	0.	0.	0.	0.	0.	0
1982	32699.	0.	0.	0.	0.	0.	5741.	0.	0
1981	36653.	0.	8936.	0.	0.	0.	0.	0.	0
1980	29326.	12820.	0.	0.	1000.	421.	0.	0.	0
1979	35967.	0.	709.	0.	854.	0.	0.	0.	0
1978	2203.	0.	0.	0.	34.	0.	0.	0.	0
1977	27172.	0.	0.	0.	7345.	373.	0.	57.	0
1976	35518.	698.	6065.	0.	215.	3583.	319.	0.	23
1975	19909.	0.	2332.	0.	1942.	736.	0.	1407.	0
1974	28633.	621.	0.	0.	0.	82.	0.	0.	0
1973	14840.	0.	0.	0.	0.	0.	37.	0.	0
1972	9104.	12.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	8236.	0.	0.	945.	6142.	7680.	2567.	0.	0
1970	6190.	0.	2340.	0.	0.	0.	0.	78.	0
1969	17326.	0.	0.	0.	0.	0.	316.	673.	316
1968	22894.	845.	0.	0.	1651.	1136.	0.	3874.	16
1967	5001.	0.	0.	0.	864.	0.	0.	3188.	0
1966	6223.	606.	200.	0.	408.	0.	0.	1092.	0
1965	5638.	0.	0.	0.	98.	0.	604.	667.	0
1964	7000.	1614.	0.	0.	0.	32.	0.	0.	0
1963	1127.	0.	0.	0.	0.	0.	0.	0.	0
1962	6090.	0.	200.	0.	0.	0.	0.	0.	0
1961	3072.	0.	0.	0.	0.	0.	192.	2668.	0
1960	17701.	0.	0.	0.	0.	0.	0.	2153.	0
1959	26431.	0.	0.	0.	0.	288.	0.	0.	0
1958	6945.	134.	3414.	0.	0.	0.	0.	300.	0
1957	456.	0.	0.	0.	0.	0.	0.	0.	0
1956	826.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	8624202.	103051.	37553.	945.	20553.	16838.	9776.	16793.	355

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS				
		1987	1986	1985	1984	1983
2011	2455000.	0.	0.	0.	0.	0.
2010	253232.	0.	0.	0.	0.	0.
2009	545368.	0.	0.	0.	0.	0.
2008	164158.	0.	0.	0.	0.	0.
2007	400323.	0.	0.	0.	0.	0.
2006	154716.	0.	0.	0.	0.	0.
2005	181174.	0.	0.	0.	0.	0.
2004	158787.	0.	0.	0.	0.	0.
2003	378014.	0.	0.	0.	0.	0.
2002	381422.	0.	0.	0.	0.	0.
2001	872849.	0.	0.	0.	0.	0.
2000	184769.	0.	0.	0.	0.	0.
1999	487153.	0.	0.	0.	0.	0.
1998	273055.	0.	0.	0.	0.	0.
1997	128333.	0.	0.	0.	0.	0.
1996	103024.	0.	0.	0.	0.	0.
1995	125775.	0.	0.	0.	0.	0.
1994	203626.	0.	0.	0.	0.	0.
1993	199177.	0.	0.	0.	0.	0.
1992	94187.	0.	0.	0.	0.	0.
1991	70843.	0.	0.	0.	0.	0.
1990	42559.	0.	0.	0.	0.	0.
1989	72280.	0.	0.	0.	0.	0.
1988	23150.	0.	0.	0.	0.	0.
1987	108725.	0.	0.	0.	0.	0.
1986	87264.	0.	0.	0.	0.	0.
1985	29628.	0.	0.	0.	0.	0.
1984	10599.	0.	0.	0.	0.	0.
1983	21832.	0.	0.	0.	0.	0.
1982	32699.	0.	0.	0.	0.	0.
1981	36653.	0.	0.	0.	827.	0.
1980	29326.	0.	0.	0.	0.	0.
1979	35967.	31.	886.	170.	0.	10969.
1978	2203.	0.	0.	821.	0.	0.
1977	27172.	0.	0.	0.	0.	0.
1976	35518.	92.	0.	0.	0.	0.
1975	19909.	0.	0.	0.	0.	0.
1974	28633.	0.	1421.	1309.	0.	0.
1973	14840.	8867.	0.	0.	0.	0.
1972	9104.	0.	0.	2368.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1971	8236.	0.	0.	0.	0.	0.
1970	6190.	0.	0.	0.	0.	0.
1969	17326.	1352.	552.	3475.	0.	0.
1968	22894.	1465.	45.	0.	0.	0.
1967	5001.	0.	0.	0.	0.	0.
1966	6223.	2141.	52.	17277.	0.	0.
1965	5638.	0.	0.	0.	0.	0.
1964	7000.	0.	1014.	0.	0.	0.
1963	1127.	0.	3831.	0.	0.	0.
1962	6090.	0.	0.	0.	0.	0.
1961	3072.	0.	0.	0.	0.	0.
1960	17701.	0.	0.	0.	0.	0.
1959	26431.	998.	429.	0.	0.	0.
1958	6945.	763.	0.	0.	0.	0.
1957	456.	0.	0.	0.	0.	0.
1956	826.	0.	0.	0.	0.	60645.
TOTAL	8624202.	15709.	8230.	25420.	827.	71614.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	8900487.	1565.	0.00017583	0.99982417	1.00000000
0.5	6497683.	0.	0.00000000	1.00000000	0.99982417
1.5	6305809.	2507.	0.00039757	0.99960243	0.99982417
2.5	5807916.	827.	0.00014239	0.99985761	0.99942667
3.5	5693474.	31532.	0.00553827	0.99446173	0.99928436
4.5	5267584.	65776.	0.01248694	0.98751306	0.99375005
5.5	5082414.	104056.	0.02047374	0.97952626	0.98134115
6.5	4850447.	23617.	0.00486904	0.99513096	0.96124943
7.5	4698086.	14736.	0.00313660	0.99686340	0.95656908
8.5	4346268.	71000.	0.01633585	0.98366415	0.95356870
9.5	3920156.	26185.	0.00667958	0.99332042	0.93799135
10.5	3032853.	4070.	0.00134197	0.99865803	0.93172596
11.5	2871860.	130029.	0.04527693	0.95472307	0.93047561
12.5	2267304.	12158.	0.00536232	0.99463768	0.88834653
13.5	2020305.	53610.	0.02653560	0.97346440	0.88358294
14.5	1875615.	25918.	0.01381840	0.98618160	0.86013653
15.5	1756178.	8151.	0.00464133	0.99535867	0.84825082
16.5	1653827.	13471.	0.00814535	0.99185465	0.84431381
17.5	1444807.	7900.	0.00546786	0.99453214	0.83743658
18.5	1258110.	25344.	0.02014450	0.97985550	0.83285760
19.5	1146833.	11834.	0.01031885	0.98968115	0.81608009
20.5	1073517.	25678.	0.02391951	0.97608049	0.80765908
21.5	1011212.	7932.	0.00784405	0.99215595	0.78834027
22.5	965096.	6946.	0.00719721	0.99280279	0.78215649
23.5	1013299.	69085.	0.06817830	0.93182170	0.77652715
24.5	848640.	13718.	0.01616469	0.98383531	0.72358485
25.5	748114.	1878.	0.00251031	0.99748969	0.71188833
26.5	778079.	177586.	0.22823646	0.77176354	0.71010126
27.5	589894.	15211.	0.02578599	0.97421401	0.54803026
28.5	552851.	11343.	0.02051728	0.97948272	0.53389876
29.5	508809.	2351.	0.00462059	0.99537941	0.52294461
30.5	469805.	16889.	0.03594896	0.96405104	0.52052829
31.5	423590.	2713.	0.00640478	0.99359522	0.50181584
32.5	384910.	4436.	0.01152477	0.98847523	0.49860182
33.5	378271.	4137.	0.01093660	0.98906340	0.49285555
34.5	346962.	3107.	0.00895487	0.99104513	0.48746539
35.5	308337.	7511.	0.02435971	0.97564029	0.48310020
36.5	280917.	3785.	0.01347373	0.98652627	0.47133202
37.5	248499.	4772.	0.01920330	0.98079670	0.46498142
38.5	228887.	2709.	0.01183553	0.98816447	0.45605224

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	217074.	4812.	0.02216756	0.97783244	0.45065462
40.5	204026.	17425.	0.08540578	0.91459422	0.44066471
41.5	180411.	5205.	0.02885079	0.97114921	0.40302939
42.5	157880.	2501.	0.01584115	0.98415885	0.39140168
43.5	132485.	701.	0.00529117	0.99470883	0.38520142
44.5	126783.	4282.	0.03377424	0.96622576	0.38316326
45.5	116278.	4430.	0.03809835	0.96190165	0.37022221
46.5	106210.	994.	0.00935882	0.99064118	0.35611736
47.5	98216.	0.	0.00000000	1.00000000	0.35278452
48.5	97089.	144.	0.00148318	0.99851682	0.35278452
49.5	90855.	4204.	0.04627153	0.95372847	0.35226128
50.5	83579.	7016.	0.08394453	0.91605547	0.33596161
51.5	58862.	24204.	0.41119908	0.58880092	0.30775947
52.5	8227.	0.	0.00000000	1.00000000	0.18120906
53.5	1282.	0.	0.00000000	1.00000000	0.18120906
54.5	826.	0.	0.00000000	1.00000000	0.18120906
TOTAL		1091991.			35.16353262

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 37.211560 FIT INDEX 0.003387 VARIANCE 0.289624

FITTED RANGE AGE 0.5 TO 54.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	8900487.	1565.	9049.	0.00017583	0.00101671	1.00000000	1.00000000	0.00	0.00000000
0.5	6497683.	0.	16572.	0.00000000	0.00255042	0.99982417	0.99898329	1.34	0.01242623
1.5	6305809.	2507.	22603.	0.00039757	0.00358443	0.99982417	0.99643547	4.03	0.03680875
2.5	5807916.	827.	26823.	0.00014239	0.00461844	0.99942667	0.99286382	6.72	0.06026559
3.5	5693474.	31532.	32182.	0.00553827	0.00565245	0.99928436	0.98827834	9.41	0.08284104
4.5	5267584.	65776.	35221.	0.01248694	0.00668646	0.99375005	0.98269215	12.09	0.10457710
5.5	5082414.	104056.	39239.	0.02047374	0.00772047	0.98134115	0.97612142	14.78	0.12551343
6.5	4850447.	23617.	42463.	0.00486904	0.00875448	0.96124943	0.96858530	17.47	0.14568738
7.5	4698086.	14736.	45987.	0.00313660	0.00978849	0.95656908	0.96010584	20.16	0.16513433
8.5	4346268.	71000.	47037.	0.01633585	0.01082250	0.95356870	0.95070785	22.84	0.18388767
9.5	3920156.	26185.	46479.	0.00667958	0.01185651	0.93799135	0.94041882	25.53	0.20197905
10.5	3032853.	4070.	39095.	0.00134197	0.01289052	0.93172596	0.92926873	28.22	0.21943836
11.5	2871860.	130029.	39989.	0.04527693	0.01392453	0.93047561	0.91728997	30.90	0.23629393
12.5	2267304.	12158.	33916.	0.00536232	0.01495855	0.88834653	0.90451713	33.59	0.25257262
13.5	2020305.	53610.	32310.	0.02653560	0.01599256	0.88358294	0.89098687	36.28	0.26829980
14.5	1875615.	25918.	31935.	0.01381840	0.01702657	0.86013653	0.87673771	38.97	0.28349963
15.5	1756178.	8151.	31718.	0.00464133	0.01806058	0.84825082	0.86180988	41.65	0.29819488
16.5	1653827.	13471.	31579.	0.00814535	0.01909459	0.84431381	0.84624510	44.34	0.31240729
17.5	1444807.	7900.	29082.	0.00546786	0.02012860	0.83743658	0.83008639	47.03	0.32615733
18.5	1258110.	25344.	26625.	0.02014450	0.02116261	0.83285760	0.81337792	49.72	0.33946457
19.5	1146833.	11834.	25456.	0.01031885	0.02219662	0.81608009	0.79616472	52.40	0.35234755
20.5	1073517.	25678.	24938.	0.02391951	0.02323063	0.80765908	0.77849255	55.09	0.36482394
21.5	1011212.	7932.	24537.	0.00784405	0.02426464	0.78834027	0.76040768	57.78	0.37691038
22.5	965096.	6946.	24416.	0.00719721	0.02529865	0.78215649	0.74195665	60.47	0.38862290
23.5	1013299.	69085.	26683.	0.06817830	0.02633266	0.77652715	0.72318615	63.15	0.39997656
24.5	848640.	13718.	23224.	0.01616469	0.02736668	0.72358485	0.70414273	65.84	0.41098577
25.5	748114.	1878.	21247.	0.00251031	0.02840069	0.71188833	0.68487269	68.53	0.42166429
26.5	778079.	177586.	22903.	0.22823646	0.02943470	0.71010126	0.66542183	71.21	0.43202518
27.5	589894.	15211.	17973.	0.02578599	0.03046871	0.54803026	0.64583534	73.90	0.44208085
28.5	552851.	11343.	17416.	0.02051728	0.03150272	0.53389876	0.62615757	76.59	0.45184318
29.5	508809.	2351.	16555.	0.00462059	0.03253673	0.52294461	0.60643191	79.28	0.46132349
30.5	469805.	16889.	15772.	0.03594896	0.03357074	0.52052829	0.58670060	81.96	0.47053254
31.5	423590.	2713.	14658.	0.00640478	0.03460475	0.50181584	0.56700462	84.65	0.47948061

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 37.211560 FIT INDEX 0.003387 VARIANCE 0.289624

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 54.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	384910.	4436.	13718.	0.01152477	0.03563876	0.49860182	0.54738357	87.34	0.48817750
33.5	378271.	4137.	13872.	0.01093660	0.03667277	0.49285555	0.52787550	90.03	0.49663260
34.5	346962.	3107.	13083.	0.00895487	0.03770678	0.48746539	0.50851684	92.71	0.50485489
35.5	308337.	7511.	11945.	0.02435971	0.03874079	0.48310020	0.48934230	95.40	0.51285288
36.5	280917.	3785.	11173.	0.01347373	0.03977481	0.47133202	0.47038479	98.09	0.52063473
37.5	248499.	4772.	10141.	0.01920330	0.04080882	0.46498142	0.45167533	100.78	0.52820823
38.5	228887.	2709.	9577.	0.01183553	0.04184283	0.45605224	0.43324299	103.46	0.53558087
39.5	217074.	4812.	9307.	0.02216756	0.04287684	0.45065462	0.41511488	106.15	0.54275978
40.5	204026.	17425.	8959.	0.08540578	0.04391085	0.44066471	0.39731607	108.84	0.54975181
41.5	180411.	5205.	8109.	0.02885079	0.04494486	0.40302939	0.37986958	111.52	0.55656349
42.5	157880.	2501.	7259.	0.01584115	0.04597887	0.39140168	0.36279640	114.21	0.56320108
43.5	132485.	701.	6229.	0.00529117	0.04701288	0.38520142	0.34611543	116.90	0.56967058
44.5	126783.	4282.	6092.	0.03377424	0.04804689	0.38316326	0.32984355	119.59	0.57597776
45.5	116278.	4430.	5707.	0.03809835	0.04908090	0.37022221	0.31399559	122.27	0.58212809
46.5	106210.	994.	5323.	0.00935882	0.05011491	0.35611736	0.29858440	124.96	0.58812686
47.5	98216.	0.	5024.	0.00000000	0.05114892	0.35278452	0.28362087	127.65	0.59397916
48.5	97089.	144.	5066.	0.00148318	0.05218294	0.35278452	0.26911397	130.34	0.59968982
49.5	90855.	4204.	4835.	0.04627153	0.05321695	0.35226128	0.25507081	133.02	0.60526350
50.5	83579.	7016.	4534.	0.08394453	0.05425096	0.33596161	0.24149672	135.71	0.61070472
51.5	58862.	24204.	3254.	0.41119908	0.05528497	0.30775947	0.22839529	138.40	0.61601774
52.5	8227.	0.	463.	0.00000000	0.05631898	0.18120906	0.21576847	141.09	0.62120668
53.5	1282.	0.	74.	0.00000000	0.05735299	0.18120906	0.20361661	143.77	0.62627555
54.5	826.	0.	48.	0.00000000	0.05838700	0.18120906	0.19193859	146.46	0.63122812
TOTAL (EXCEPT AGE 0)	1090426.	1090426.							

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 37.211560 FIT INDEX 0.003387 VARIANCE 0.289624

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 54.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
55.5					0.05942101		0.18073187	149.15	0.63606808
56.5					0.06045502		0.16999260	151.83	0.64079892
57.5					0.06148903		0.15971569	154.52	0.64542410
58.5					0.06252304		0.14989493	157.21	0.64994682
59.5					0.06355705		0.14052304	159.90	0.65437025
60.5					0.06459107		0.13159181	162.58	0.65869745
61.5					0.06562508		0.12309216	165.27	0.66293131
62.5					0.06665909		0.11501422	167.96	0.66707465
63.5					0.06769310		0.10734748	170.65	0.67113018
64.5					0.06872711		0.10008080	173.33	0.67510053
65.5					0.06976112		0.09320253	176.02	0.67898824
66.5					0.07079513		0.08670062	178.71	0.68279575
67.5					0.07182914		0.08056264	181.40	0.68652541
68.5					0.07286315		0.07477589	184.08	0.69017950
69.5					0.07389716		0.06932749	186.77	0.69376024
70.5					0.07493117		0.06420438	189.46	0.69726977
71.5					0.07596518		0.05939347	192.14	0.70071018
72.5					0.07699919		0.05488164	194.83	0.70408348
73.5					0.07803321		0.05065579	197.52	0.70739162
74.5					0.07906722		0.04670296	200.21	0.71063652
75.5					0.08010123		0.04301029	202.89	0.71382003
76.5					0.08113524		0.03956511	205.58	0.71694398
77.5					0.08216925		0.03635499	208.27	0.72001013
78.5					0.08320326		0.03336772	210.96	0.72302020
79.5					0.08423727		0.03059142	213.64	0.72597589
80.5					0.08527128		0.02801448	216.33	0.72887890
81.5					0.08630529		0.02562565	219.02	0.73173085
82.5					0.08733930		0.02341402	221.71	0.73453341
83.5					0.08837331		0.02136906	224.39	0.73728815
84.5					0.08940732		0.01948060	227.08	0.73999673
85.5					0.09044134		0.01773889	229.77	0.74266074
86.5					0.09147535		0.01613457	232.45	0.74528183
87.5					0.09250936		0.01465865	235.14	0.74786162

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 37.211560 FIT INDEX 0.003387 VARIANCE 0.289624

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 54.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
88.5					0.09354337		0.01330259	237.83	0.75040180
89.5					0.09457738		0.01205822	240.52	0.75290407
90.5					0.09561139		0.01091778	243.20	0.75537019
91.5					0.09664540		0.00987392	245.89	0.75780197
92.5					0.09767941		0.00891965	248.58	0.76020130
93.5					0.09871342		0.00804838	251.27	0.76257018
94.5					0.09974743		0.00725390	253.95	0.76491070
95.5					0.10078144		0.00653034	256.64	0.76722510
96.5					0.10181545		0.00587221	259.33	0.76951577
97.5					0.10284947		0.00527432	262.02	0.77178530
98.5					0.10388348		0.00473186	264.70	0.77403649
99.5					0.10491749		0.00424030	267.39	0.77627242
100.5					0.10595150		0.00379542	270.08	0.77849645
101.5					0.10698551		0.00339329	272.76	0.78071233
102.5					0.10801952		0.00303026	275.45	0.78292421
103.5					0.10905353		0.00270293	278.14	0.78513673
104.5					0.11008754		0.00240817	280.83	0.78735511
105.5					0.11112155		0.00214306	283.51	0.78958523
106.5					0.11215556		0.00190492	286.20	0.79183375
107.5					0.11318957		0.00169127	288.89	0.79410822
108.5					0.11422358		0.00149984	291.58	0.79641726
109.5					0.11525760		0.00132852	294.26	0.79877071
110.5					0.11629161		0.00117540	296.95	0.80117987
111.5					0.11732562		0.00103871	299.64	0.80365772
112.5					0.11835963		0.00091684	302.33	0.80621917
113.5					0.11939364		0.00080832	305.01	0.80888146
114.5					0.12042765		0.00071182	307.70	0.81166452
115.5					0.12146166		0.00062609	310.39	0.81459143
116.5					0.12249567		0.00055005	313.07	0.81768897
117.5					0.12352968		0.00048267	315.76	0.82098824
118.5					0.12456369		0.00042304	318.45	0.82452547
119.5					0.12559770		0.00037035	321.14	0.82834288
120.5					0.12663171		0.00032383	323.82	0.83248973

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 37.211560 FIT INDEX 0.003387 VARIANCE 0.289624

FITTED RANGE AGE 0.5 TO 54.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
121.5					C.12766573		0.00028283	326.51	0.83702361
122.5					C.12869974		0.00024672	329.20	0.84201192
123.5					C.12973375		0.00021497	331.89	0.84753361
124.5					C.13076776		0.00018708	334.57	0.85368133
125.5					C.13180177		0.00016261	337.26	0.86056386
126.5					C.13283578		0.00014118	339.95	0.86830918
127.5					C.13386979		0.00012243	342.64	0.87706789
128.5					C.13490380		0.00010604	345.32	0.88701757
129.5					C.13593781		0.00009173	348.01	0.89836769
130.5					C.13697182		0.00007926	350.70	0.91136577
131.5					C.13800583		0.00006841	353.38	0.92630449
132.5					C.13903984		0.00005897	356.07	0.94353038
133.5					C.14007386		0.00005077	358.76	0.96345420
134.5							0.00004366	361.45	0.98656331

EQUIVALENT H CURVE IS 1.49

EQUIVALENT L CURVE IS 1.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS -0.50

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 36.540530 FIT INDEX 0.003443 VARIANCE 0.256317

FITTED RANGE AGE 0.5 TO 54.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	8900487.	1565.	0.	0.00017583	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	6497683.	0.	0.	0.00000000	0.00000000	0.99982417	1.00000000	1.37	0.01368343
1.5	6305809.	2507.	9458.	0.00039757	0.00149989	0.99982417	1.00000000	4.11	0.04105030
2.5	5807916.	827.	19575.	0.00014239	0.00337037	0.99942667	0.99850011	6.84	0.06699725
3.5	5693474.	31532.	29227.	0.00553827	0.00513337	0.99928436	0.99513479	9.58	0.09125520
4.5	5267584.	65776.	35787.	0.01248694	0.00679390	0.99375005	0.99002640	12.32	0.11400373
5.5	5082414.	104056.	42474.	0.02047374	0.00835701	0.98134115	0.98330026	15.05	0.13540360
6.5	4850447.	23617.	47669.	0.00486904	0.00982771	0.96124943	0.97508281	17.79	0.15559948
7.5	4698086.	14736.	52671.	0.00313660	0.01121106	0.95656908	0.96549998	20.53	0.17472125
8.5	4346268.	71000.	54381.	0.01633585	0.01251207	0.95356870	0.95467570	23.26	0.19288611
9.5	3920156.	26185.	53846.	0.00667958	0.01373578	0.93799135	0.94273073	26.00	0.21019974
10.5	3032853.	4070.	45151.	0.00134197	0.01488722	0.93172596	0.92978160	28.74	0.22675755
11.5	2871860.	130029.	45868.	0.04527693	0.01597142	0.93047561	0.91593974	31.47	0.24264579
12.5	2267304.	12158.	38529.	0.00536232	0.01699342	0.88834653	0.90131088	34.21	0.25794239
13.5	2020305.	53610.	36281.	0.02653560	0.01795824	0.88358294	0.88599453	36.95	0.27271769
14.5	1875615.	25918.	35395.	0.01381840	0.01887092	0.86013653	0.87008362	39.68	0.28703522
15.5	1756178.	8151.	34661.	0.00464133	0.01973649	0.84825082	0.85366434	42.42	0.30095217
16.5	1653827.	13471.	34003.	0.00814535	0.02055999	0.84431381	0.83681600	45.16	0.31452000
17.5	1444807.	7900.	30841.	0.00546786	0.02134643	0.83743658	0.81961108	47.89	0.32778483
18.5	1258110.	25344.	27805.	0.02014450	0.02210087	0.83285760	0.80211531	50.63	0.34078776
19.5	1146833.	11834.	26180.	0.01031885	0.02282832	0.81608009	0.78438786	53.37	0.35356542
20.5	1073517.	25678.	25264.	0.02391951	0.02353381	0.80765908	0.76648161	56.10	0.36615019
21.5	1011212.	7932.	24494.	0.00784405	0.02422239	0.78834027	0.74844337	58.84	0.37857041
22.5	965096.	6946.	24030.	0.00719721	0.02489909	0.78215649	0.73031428	61.58	0.39085079
23.5	1013299.	69085.	25909.	0.06817830	0.02556892	0.77652715	0.71213012	64.31	0.40301255
24.5	848640.	13718.	22266.	0.01616469	0.02623694	0.72358485	0.69392172	67.05	0.41507362
25.5	748114.	1878.	20130.	0.00251031	0.02690816	0.71188833	0.67571534	69.79	0.42704901
26.5	778079.	177586.	21465.	0.22823646	0.02758762	0.71010126	0.65753308	72.52	0.43895089
27.5	589894.	15211.	16682.	0.02578599	0.02828036	0.54803026	0.63939331	75.26	0.45078882
28.5	552851.	11343.	16028.	0.02051728	0.02899140	0.53389876	0.62131104	78.00	0.46256998
29.5	508809.	2351.	15125.	0.00462059	0.02972577	0.52294461	0.60329836	80.73	0.47429936
30.5	469805.	16889.	14324.	0.03594896	0.03048851	0.52052829	0.58536485	83.47	0.48597982
31.5	423590.	2713.	13252.	0.00640478	0.03128465	0.50181584	0.56751795	86.21	0.49761247

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 378C0 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 36.540530 FIT INDEX 0.003443 VARIANCE 0.256317

FITTED RANGE AGE 0.5 TO 54.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	384910.	4436.	12363.	0.01152477	0.03211923	0.49860182	0.54976334	88.94	0.50919666
33.5	378271.	4137.	12482.	0.01093660	0.03299726	0.49285555	0.53210537	91.68	0.52073027
34.5	346962.	3107.	11770.	0.00895487	0.03392379	0.48746539	0.51454735	94.42	0.53220983
35.5	308337.	7511.	10762.	0.02435971	0.03490385	0.48310020	0.49709195	97.15	0.54363072
36.5	280917.	3785.	10097.	0.01347373	0.03594247	0.47133202	0.47974153	99.89	0.55498735
37.5	248499.	4772.	9206.	0.01920330	0.03704467	0.46498142	0.46249843	102.63	0.56627319
38.5	228887.	2709.	8747.	0.01183553	0.03821550	0.45605224	0.44536533	105.36	0.57748110
39.5	217074.	4812.	8566.	0.02216756	0.03945999	0.45065462	0.42834547	108.10	0.58860332
40.5	204026.	17425.	8321.	0.08540578	0.04078315	0.44066471	0.41144296	110.84	0.59963173
41.5	180411.	5205.	7612.	0.02885079	0.04219004	0.40302939	0.39466302	113.57	0.61055785
42.5	157880.	2501.	6897.	0.01584115	0.04368568	0.39140168	0.37801217	116.31	0.62137312
43.5	132485.	701.	5998.	0.00529117	0.04527510	0.38520142	0.36149845	119.05	0.63206890
44.5	126783.	4282.	5954.	0.03377424	0.04696333	0.38316326	0.34513158	121.78	0.64263658
45.5	116278.	4430.	5669.	0.03809835	0.04875540	0.37022221	0.32892305	124.52	0.65306772
46.5	106210.	994.	5380.	0.00935882	0.05065636	0.35611736	0.31288627	127.26	0.66335415
47.5	98216.	0.	5173.	0.00000000	0.05267122	0.35278452	0.29703659	129.99	0.67348798
48.5	97089.	144.	5321.	0.00148318	0.05480502	0.35278452	0.28139131	132.73	0.68346167
49.5	90855.	4204.	5184.	0.04627153	0.05706280	0.35226128	0.26596966	135.47	0.69326818
50.5	83579.	7016.	4969.	0.08394453	0.05944958	0.33596161	0.25079268	138.20	0.70290093
51.5	58862.	24204.	3648.	0.41119908	0.06197040	0.30775947	0.23588316	140.94	0.71235389
52.5	8227.	0.	532.	0.00000000	0.06463028	0.18120906	0.22126539	143.68	0.72162158
53.5	1282.	0.	86.	0.00000000	0.06743426	0.18120906	0.20696495	146.41	0.73069908
54.5	826.	0.	58.	0.00000000	0.07038738	0.18120906	0.19300842	149.15	0.73958214
TOTAL (EXCEPT AGE 0)	1090426.	1093566.							

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 36.540530 FIT INDEX 0.003443 VARIANCE 0.256317

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	FITTED RANGE AGE 0.5 TO 54.5 RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
55.5					0.07349466		0.17942306	151.89	0.74826704
56.5					0.07676114		0.16623642	154.62	0.75675073
57.5					0.08019184		0.15347593	157.36	0.76503073
58.5					0.08379180		0.14116841	160.10	0.77310518
59.5					0.08756605		0.12933966	162.83	0.78097279
60.5					0.09151963		0.11801389	165.57	0.78863288
61.5					0.09565756		0.10721330	168.31	0.79608525
62.5					0.09998487		0.09695754	171.04	0.80333025
63.5					0.10450661		0.08726325	173.78	0.81036873
64.5					0.10922779		0.07814367	176.52	0.81720198
65.5					0.11415346		0.06960821	179.25	0.82383177
66.5					0.11928864		0.06166219	181.99	0.83026025
67.5					0.12463837		0.05430659	184.73	0.83648996
68.5					0.13020767		0.04753791	187.46	0.84252376
69.5					0.13600159		0.04134811	190.20	0.84836489
70.5					0.14202514		0.03572470	192.94	0.85401685
71.5					0.14828337		0.03065089	195.67	0.85948344
72.5					0.15478130		0.02610588	198.41	0.86476874
73.5					0.16152397		0.02206517	201.15	0.86987707
74.5					0.16851641		0.01850112	203.88	0.87481304
75.5					0.17576365		0.01538338	206.62	0.87958153
76.5					0.18327072		0.01267954	209.36	0.88418776
77.5					0.19104265		0.01035575	212.09	0.88863735
78.5					0.19908448		0.00837736	214.83	0.89293638
79.5					0.20740124		0.00670956	217.57	0.89709163
80.5					0.21599796		0.00531799	220.30	0.90111080
81.5					0.22487967		0.00416931	223.04	0.90500289
82.5					0.23405140		0.00323172	225.78	0.90877886
83.5					0.24351819		0.00247533	228.51	0.91245248
84.5					0.25328506		0.00187254	231.25	0.91604184
85.5					0.26335706		0.00139826	233.99	0.91957159
86.5					0.27373920		0.00103002	236.72	0.92307647
87.5					0.28443653		0.00074806	239.46	0.92660714

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EXPERIENCE BAND 1983 TO 2011 DEGREE 3 AVG LIFE 36.540530 FIT INDEX 0.003443 VARIANCE 0.256317

FITTED RANGE AGE 0.5 TO 54.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
88.5					0.29545407		0.00053528	242.20	0.93023950
89.5					0.30679686		0.00037713	244.93	0.93409024
90.5					0.31846992		0.00026143	247.67	0.93834286
91.5					0.33047830		0.00017817	250.41	0.94329225
92.5					0.34282701		0.00011929	253.14	0.94942217
93.5					0.35552110		0.00007839	255.88	0.95754236
94.5					0.36856560		0.00005052	258.62	0.96903619
95.5							0.00003190	261.35	0.98631657

EQUIVALENT H CURVE IS 1.69

EQUIVALENT L CURVE IS 1.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS -0.50

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = 0.20334103E-02 0.10340108E-02 (X)

QUADRATIC YEST(I) = 0.70503193E-03 0.13118067E-02 (X) -0.77875742E-05 (X^2)

CUBIC YEST(I) = -0.15183938E-02 0.21003555E-02 (X) -0.60035859E-04 (X^2) 0.83864012E-06 (X^3)

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	24.60	0.008641	310.99	2.15	2.00	0.50	1.50
1984	1988	41.44	0.003721	358.33	1.52	1.00	-0.50	0.50
1985	1989	36.13	0.003698	344.59	1.69	1.00	-0.50	0.50
1986	1990	43.52	0.002286	350.44	1.61	1.00	-0.50	0.50
1987	1991	43.24	0.002188	359.62	1.50	1.00	-0.50	0.50
1988	1992	43.17	0.002390	357.91	1.51	1.00	-0.50	0.50
1989	1993	44.95	0.002498	359.30	1.50	1.00	-0.50	0.50
1990	1994	43.74	0.002814	382.91	1.23	0.50	SC	0.50
1991	1995	39.74	0.005193	612.76	-0.77	0.00	SC	0.50
1992	1996	45.54	0.004551	604.90	-0.70	0.00	SC	0.50
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	60.37	0.003947	660.06	-2.15	0.00	SC	0.50
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	45.61	0.002365	323.36	1.96	1.50	0.00	1.00
1997	2001	41.79	0.002572	340.98	1.73	1.50	0.00	0.50
1998	2002	39.96	0.002550	341.55	1.73	1.00	-0.50	0.50
1999	2003	33.98	0.005831	381.15	1.26	0.50	SC	0.50
2000	2004	34.42	0.006053	379.09	1.26	0.50	SC	0.50
2001	2005	40.10	0.004720	412.69	0.93	0.00	SC	0.50
2002	2006	43.59	0.004182	411.83	0.95	0.00	SC	0.50
2003	2007	47.55	0.003361	425.88	0.81	0.00	SC	0.50
2004	2008	65.79	0.001203	392.93	1.14	0.50	SC	0.50
2005	2009	53.57	0.001326	357.49	1.54	1.00	-0.50	0.50
2006	2010	61.85	0.001231	353.27	1.59	1.00	-0.50	0.50
2007	2011	35.52	0.006242	322.39	1.96	1.50	0.00	1.00

PGS - 2011 CASE

P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	35.52	0.006242	322.39	1.96	1.50	0.00	1.00
2006	2011	36.72	0.005541	328.18	1.89	1.50	0.00	1.00
2005	2011	37.17	0.005105	334.97	1.82	1.50	0.00	1.00
2004	2011	38.43	0.004652	336.94	1.78	1.50	0.00	1.00
2003	2011	37.23	0.004413	353.18	1.57	1.00	-0.50	0.50
2002	2011	37.52	0.004246	353.16	1.57	1.00	-0.50	0.50
2001	2011	37.45	0.004072	356.47	1.53	1.00	-0.50	0.50
2000	2011	36.36	0.003911	350.70	1.62	1.00	-0.50	0.50
1999	2011	37.22	0.003776	350.58	1.61	1.00	-0.50	0.50
1998	2011	37.85	0.003679	350.08	1.61	1.00	-0.50	0.50
1997	2011	38.34	0.003592	350.82	1.60	1.00	-0.50	0.50
1996	2011	38.82	0.003462	351.60	1.61	1.00	-0.50	0.50
1995	2011	38.33	0.003373	363.98	1.45	1.00	-0.50	0.50
1994	2011	38.10	0.003312	366.11	1.44	1.00	-0.50	0.50
1993	2011	38.54	0.003244	364.56	1.44	1.00	-0.50	0.50
1992	2011	38.50	0.003196	364.93	1.44	1.00	-0.50	0.50
1991	2011	38.55	0.003121	364.45	1.44	1.00	-0.50	0.50
1990	2011	38.74	0.003079	365.26	1.43	1.00	-0.50	0.50
1989	2011	38.60	0.003036	363.97	1.44	1.00	-0.50	0.50
1988	2011	38.87	0.002998	364.06	1.45	1.00	-0.50	0.50
1987	2011	38.80	0.002934	364.67	1.45	1.00	-0.50	0.50
1986	2011	38.85	0.002821	364.25	1.45	1.00	-0.50	0.50
1985	2011	38.57	0.002776	364.31	1.45	1.00	-0.50	0.50
1984	2011	38.75	0.002757	365.19	1.45	1.00	-0.50	0.50
1983	2011	37.21	0.003387	361.45	1.49	1.00	-0.50	0.50

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	25.02	0.008494	213.83	2.79	3.00	1.50	2.00
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	42.84	0.002338	227.60	2.86	3.00	1.50	2.50
1997	2001	40.48	0.002589	280.37	2.05	2.00	0.50	1.00
1998	2002	39.41	0.002572	305.75	1.89	1.50	0.00	1.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	50.42	0.001333	284.59	1.92	1.50	0.00	1.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	35.48	0.006297	283.25	2.14	2.00	0.50	1.50

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	35.48	0.006297	283.25	2.14	2.00	0.50	1.50
2006	2011	36.57	0.005592	299.40	2.01	1.50	0.00	1.00
2005	2011	36.86	0.005150	291.61	2.00	1.50	0.00	1.00
2004	2011	37.96	0.004692	291.09	1.97	1.50	0.00	1.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1983	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	24.62	0.008499	180.76	2.90	3.00	1.50	2.50
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	33.16	0.005071	236.75	0.73	0.00	SC	0.50
1992	1996	33.09	0.004463	213.07	1.28	0.50	SC	0.50
1993	1997	35.03	0.004444	195.52	1.61	1.00	-0.50	0.50
1994	1998	36.42	0.003916	196.31	1.62	1.00	-0.50	0.50
1995	1999	42.81	0.003208	181.04	2.09	2.00	0.50	1.00
1996	2000	41.75	0.002351	190.43	3.20	3.00	2.00	2.50
1997	2001	39.02	0.002605	213.97	2.39	2.00	1.00	1.50
1998	2002	37.89	0.002586	220.35	2.23	2.00	0.50	1.50
1999	2003	32.00	0.005802	226.58	1.42	1.00	-0.50	0.50
2000	2004	32.55	0.006045	228.89	1.39	0.50	SC	0.50
2001	2005	36.29	0.004614	205.28	1.45	1.00	-0.50	0.50
2002	2006	39.05	0.004081	201.01	1.54	1.00	-0.50	0.50
2003	2007	41.74	0.003259	197.64	1.63	1.00	-0.50	0.50
2004	2008	59.10	0.001219	224.21	1.85	1.50	0.00	1.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	58.40	0.001253	240.57	2.03	1.50	0.00	1.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37800 Meas & Reg Station Eqp Gen

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	36.75	0.004494	259.86	1.78	1.50	0.00	1.00
2002	2011	36.92	0.004322	253.25	1.80	1.50	0.00	1.00
2001	2011	36.80	0.004141	248.63	1.77	1.50	0.00	1.00
2000	2011	35.96	0.003984	268.37	1.77	1.50	0.00	1.00
1999	2011	36.65	0.003845	260.60	1.81	1.50	0.00	1.00
1998	2011	37.13	0.003746	254.51	1.85	1.50	0.00	1.00
1997	2011	37.47	0.003655	246.89	1.87	1.50	0.00	1.00
1996	2011	37.81	0.003522	244.66	1.91	1.50	0.00	1.00
1995	2011	37.15	0.003425	238.20	1.82	1.50	0.00	1.00
1994	2011	36.93	0.003360	236.93	1.80	1.50	0.00	1.00
1993	2011	37.22	0.003289	235.08	1.83	1.50	0.00	1.00
1992	2011	37.18	0.003239	235.34	1.82	1.50	0.00	1.00
1991	2011	37.20	0.003161	235.21	1.81	1.50	0.00	1.00
1990	2011	37.30	0.003116	231.91	1.83	1.50	0.00	1.00
1989	2011	37.23	0.003074	235.01	1.81	1.50	0.00	1.00
1988	2011	37.40	0.003034	233.96	1.83	1.50	0.00	1.00
1987	2011	37.34	0.002967	234.33	1.83	1.50	0.00	1.00
1986	2011	37.37	0.002851	234.13	1.83	1.50	0.00	1.00
1985	2011	37.18	0.002803	235.36	1.80	1.50	0.00	1.00
1984	2011	37.30	0.002784	234.60	1.82	1.50	0.00	1.00
1983	2011	36.54	0.003443	261.35	1.69	1.00	-0.50	0.50

Peoples Gas System
Net Salvage Analysis
Account - 378.00 - Meas & Reg Station Eqp Gen
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	2,153	(937)	(44)	0	0	(937)	(44)
2009	33,078	(28,935)	(87)	42	0	(28,893)	(87)
2008	6,556	(3,824)	(58)	506	8	(3,318)	(51)
2007	35,202	(8,441)	(24)	0	0	(8,441)	(24)
2006	23,785	(23,215)	(98)	0	0	(23,215)	(98)
2005	51,630	(34,991)	(68)	499	1	(34,492)	(67)
2004	8,817	(1,566)	(18)	0	0	(1,566)	(18)
2003	132,328	(17,391)	(13)	0	0	(17,391)	(13)
2002	33,445	(11,699)	(35)	0	0	(11,699)	(35)
2001	53,369	(5,204)	(10)	0	0	(5,204)	(10)
2000	53,965	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	5,104	0	0	0	0	0	0
1997	10,577	(1,952)	(18)	0	0	(1,952)	(18)
1996	3,064	(445)	(15)	0	0	(445)	(15)
1995	103,051	(2,020)	(2)	0	0	(2,020)	(2)
1994	37,553	(1,906)	(5)	0	0	(1,906)	(5)
1993	945	0	0	0	0	0	0
1992	20,553	0	0	0	0	0	0
1991	16,837	(9,792)	(58)	0	0	(9,792)	(58)
1990	9,776	(5,760)	(59)	0	0	(5,760)	(59)
1989	16,793	(2,804)	(17)	0	0	(2,804)	(17)
1988	355	(3,653)	(1,029)	0	0	(3,653)	(1,029)
1987	15,709	(1,766)	(11)	0	0	(1,766)	(11)
1986	8,230	(2,063)	(25)	0	0	(2,063)	(25)
1985	25,421	(531)	(2)	0	0	(531)	(2)
1984	827	(139)	(17)	0	0	(139)	(17)
1983	135,876	(5,340)	(4)	0	0	(5,340)	(4)
1982	0	0	0	0	0	0	0
	844,997	**(174,376)**	**(21)**	**1,047**	**0**	**(173,329)**	**(21)**

Peoples Gas System
Net Salvage Analysis
Account - 378.00 - Meas & Reg Station Eqp Gen
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	100,773	(65,352)	(65)	548	1	(64,804)	(64)
2009	150,250	(99,406)	(66)	1,047	1	(98,358)	(65)
2008	125,989	(72,037)	(57)	1,005	1	(71,032)	(56)
2007	251,761	(85,604)	(34)	499	0	(85,105)	(34)
2006	250,004	(88,863)	(36)	499	0	(88,363)	(35)
2005	279,588	(70,852)	(25)	499	0	(70,352)	(25)
2004	281,924	(35,860)	(13)	0	0	(35,860)	(13)
2003	273,107	(34,294)	(13)	0	0	(34,294)	(13)
2002	145,884	(16,903)	(12)	0	0	(16,903)	(12)
2001	123,016	(7,156)	(6)	0	0	(7,156)	(6)
2000	72,711	(2,397)	(3)	0	0	(2,397)	(3)
1999	121,797	(4,417)	(4)	0	0	(4,417)	(4)
1998	159,350	(6,323)	(4)	0	0	(6,323)	(4)
1997	155,190	(6,323)	(4)	0	0	(6,323)	(4)
1996	165,166	(4,371)	(3)	0	0	(4,371)	(3)
1995	178,939	(13,718)	(8)	0	0	(13,718)	(8)
1994	85,664	(17,459)	(20)	0	0	(17,459)	(20)
1993	64,904	(18,357)	(28)	0	0	(18,357)	(28)
1992	64,314	(22,010)	(34)	0	0	(22,010)	(34)
1991	59,470	(23,776)	(40)	0	0	(23,776)	(40)
1990	50,863	(16,047)	(32)	0	0	(16,047)	(32)
1989	66,507	(10,818)	(16)	0	0	(10,818)	(16)
1988	50,541	(8,153)	(16)	0	0	(8,153)	(16)
1987	186,062	(9,839)	(5)	0	0	(9,839)	(5)
1986	170,353	(8,073)	(5)	0	0	(8,073)	(5)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900. Meas & Reg Station Eqp City

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 31.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: -5.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.011959	0.	0.
2010	1.50	1357520.	0.035707	48473.	1309047.
2009	2.50	2262978.	0.059216	134004.	2128974.
2008	3.50	5469118.	0.082502	451211.	5017907.
2007	4.50	1453671.	0.105567	153460.	1300211.
2006	5.50	170021.	0.128437	21837.	148184.
2005	6.50	449154.	0.151107	67870.	381284.
2004	7.50	868942.	0.173584	150834.	718108.
2003	8.50	782606.	0.195902	153314.	629292.
2002	9.50	62572.	0.218055	13644.	48928.
2001	10.50	698110.	0.240059	167588.	530522.
2000	11.50	590650.	0.261898	154690.	435960.
1999	12.50	429848.	0.283554	121885.	307963.
1998	13.50	136059.	0.305026	41501.	94558.
1997	14.50	941287.	0.326282	307125.	634162.
1996	15.50	31150.	0.347309	10819.	20331.
1995	16.50	73189.	0.368082	26940.	46249.
1994	17.50	118927.	0.388583	46213.	72714.
1993	18.50	959292.	0.408791	392150.	567142.
1992	19.50	397400.	0.428699	170365.	227035.
1991	20.50	86486.	0.448287	38771.	47715.
1990	21.50	103728.	0.467531	48496.	55232.
1989	22.50	279542.	0.486443	135981.	143561.
1988	23.50	4674.	0.505005	2360.	2314.
1987	24.50	3949.	0.523207	2066.	1883.
1986	25.50	127142.	0.541046	68790.	58352.
1985	26.50	440.	0.558524	246.	194.
1984	27.50	208702.	0.575632	120136.	88566.
1983	28.50	98170.	0.592386	58155.	40015.
1982	29.50	86519.	0.608776	52671.	33848.
1981	30.50	5592.	0.624804	3494.	2098.
1980	31.50	4030.	0.640477	2581.	1449.
1979	32.50	3496.	0.655805	2293.	1203.
1978	33.50	8887.	0.670791	5961.	2926.
1977	34.50	13675.	0.685435	9373.	4302.
1976	35.50	102.	0.699745	71.	31.
1975	36.50	81666.	0.713738	58288.	23378.
1974	37.50	78411.	0.727410	57037.	21374.
1973	38.50	887.	0.740775	657.	230.
1972	39.50	9110.	0.753838	6867.	2243.
1971	40.50	0.	0.766609	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900. Meas & Reg Station Eqp City

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 31.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: -5.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	1837.	0.779088	1431.	406.
1969	42.50	81944.	0.791291	64842.	17102.
1968	43.50	0.	0.803221	0.	0.
1967	44.50	48679.	0.814885	39668.	9011.
1966	45.50	15702.	0.826286	12974.	2728.
1965	46.50	42937.	0.837417	35956.	6981.
1964	47.50	49160.	0.848330	41704.	7456.
1963	48.50	1379.	0.858999	1185.	194.
1962	49.50	4555.	0.869438	3960.	595.
1961	50.50	0.	0.879648	0.	0.
1960	51.50	57441.	0.889670	51104.	6337.
1959	52.50	87104.	0.899531	78353.	8751.
1958	53.50	1150.	0.909286	1046.	104.
SUBTOTAL :			0.193131	3640440.	15209150.
NET SALVAGE: -5.0%				182022.	-182022.
TOTAL :		18849590.	0.202788	3822462.	15027128.

WEIGHTED AGE: 8.8 YEARS
REMAINING LIFE: 25.0 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900. Meas & Reg Station Eqp City

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 31.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: -5.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.032258	0.
2010	1.50 - 2.50	1357520.	0.032258	43791.
2009	2.50 - 3.50	2262978.	0.032258	72999.
2008	3.50 - 4.50	5469118.	0.032258	176422.
2007	4.50 - 5.50	1453671.	0.032258	46892.
2006	5.50 - 6.50	170021.	0.032258	5485.
2005	6.50 - 7.50	449154.	0.032258	14489.
2004	7.50 - 8.50	868942.	0.032258	28030.
2003	8.50 - 9.50	782606.	0.032258	25245.
2002	9.50 - 10.50	62572.	0.032258	2018.
2001	10.50 - 11.50	698110.	0.032258	22520.
2000	11.50 - 12.50	590650.	0.032258	19053.
1999	12.50 - 13.50	429848.	0.032258	13866.
1998	13.50 - 14.50	136059.	0.032258	4389.
1997	14.50 - 15.50	941287.	0.032258	30364.
1996	15.50 - 16.50	31150.	0.032258	1005.
1995	16.50 - 17.50	73189.	0.032258	2361.
1994	17.50 - 18.50	118927.	0.032258	3836.
1993	18.50 - 19.50	959292.	0.032258	30945.
1992	19.50 - 20.50	397400.	0.032258	12819.
1991	20.50 - 21.50	86486.	0.032258	2790.
1990	21.50 - 22.50	103728.	0.032258	3346.
1989	22.50 - 23.50	279542.	0.032258	9017.
1988	23.50 - 24.50	4674.	0.032258	151.
1987	24.50 - 25.50	3949.	0.032258	127.
1986	25.50 - 26.50	127142.	0.032258	4101.
1985	26.50 - 27.50	440.	0.032258	14.
1984	27.50 - 28.50	208702.	0.032258	6732.
1983	28.50 - 29.50	98170.	0.032258	3167.
1982	29.50 - 30.50	86519.	0.032258	2791.
1981	30.50 - 31.50	5592.	0.032258	180.
1980	31.50 - 32.50	4030.	0.032258	130.
1979	32.50 - 33.50	3496.	0.032258	113.
1978	33.50 - 34.50	8887.	0.032258	287.
1977	34.50 - 35.50	13675.	0.032258	441.
1976	35.50 - 36.50	102.	0.032258	3.
1975	36.50 - 37.50	81666.	0.032258	2634.
1974	37.50 - 38.50	78411.	0.032258	2529.
1973	38.50 - 39.50	887.	0.032258	29.
1972	39.50 - 40.50	9110.	0.032258	294.
1971	40.50 - 41.50	0.	0.032258	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900. Meas & Reg Station Eqp City

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 31.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: -5.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	1837.	0.032258	59.
1969	42.50 - 43.50	81944.	0.032258	2643.
1968	43.50 - 44.50	0.	0.032258	0.
1967	44.50 - 45.50	48679.	0.032258	1570.
1966	45.50 - 46.50	15702.	0.032258	507.
1965	46.50 - 47.50	42937.	0.032258	1385.
1964	47.50 - 48.50	49160.	0.032258	1586.
1963	48.50 - 49.50	1379.	0.032258	44.
1962	49.50 - 50.50	4555.	0.032258	147.
1961	50.50 - 51.50	0.	0.032258	0.
1960	51.50 - 52.50	57441.	0.032258	1853.
1959	52.50 - 53.50	87104.	0.032258	2810.
1958	53.50 - 54.50	1150.	0.032258	37.
SUBTOTAL :		18849590.	0.032258	608047.
NET SALVAGE: -5.0 %				30402.
TOTAL :		18849590.	0.033871	638449.

MONTHLY RATE: 0.002823

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900. Meas & Reg Station Eqp City

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 31.0 YRS CURVE: IOWA R1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	0.	30.6	0.
2010	1.50	1357520.	29.9	40580751.
2009	2.50	2262978.	29.2	65998653.
2008	3.50	5469118.	28.4	155556235.
2007	4.50	1453671.	27.7	40306833.
2006	5.50	170021.	27.0	4593738.
2005	6.50	449154.	26.3	11819883.
2004	7.50	868942.	25.6	22261496.
2003	8.50	782606.	24.9	19508189.
2002	9.50	62572.	24.2	1516775.
2001	10.50	698110.	23.6	16446308.
2000	11.50	590650.	22.9	13514862.
1999	12.50	429848.	22.2	9546920.
1998	13.50	136059.	21.5	2931304.
1997	14.50	941287.	20.9	19659159.
1996	15.50	31150.	20.2	630276.
1995	16.50	73189.	19.6	1433744.
1994	17.50	118927.	19.0	2254150.
1993	18.50	959292.	18.3	17581519.
1992	19.50	397400.	17.7	7038135.
1991	20.50	86486.	17.1	1479191.
1990	21.50	103728.	16.5	1712202.
1989	22.50	279542.	15.9	4450413.
1988	23.50	4674.	15.3	71722.
1987	24.50	3949.	14.8	58369.
1986	25.50	127142.	14.2	1808935.
1985	26.50	440.	13.7	6022.
1984	27.50	208702.	13.2	2745577.
1983	28.50	98170.	12.6	1240487.
1982	29.50	86519.	12.1	1049305.
1981	30.50	5592.	11.6	65042.
1980	31.50	4030.	11.1	44916.
1979	32.50	3496.	10.7	37303.
1978	33.50	8887.	10.2	90697.
1977	34.50	13675.	9.8	133353.
1976	35.50	102.	9.3	949.
1975	36.50	81666.	8.9	724719.
1974	37.50	78411.	8.5	662601.
1973	38.50	887.	8.0	7128.
1972	39.50	9110.	7.6	69519.
1971	40.50	0.	7.2	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900. Meas & Reg Station Eqp City

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 31.0 YRS CURVE: IOWA R1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	1837.	6.8	12580.
1969	42.50	81944.	6.5	530179.
1968	43.50	0.	6.1	0.
1967	44.50	48679.	5.7	279350.
1966	45.50	15702.	5.4	84558.
1965	46.50	42937.	5.0	216407.
1964	47.50	49160.	4.7	231141.
1963	48.50	1379.	4.4	6028.
1962	49.50	4555.	4.0	18436.
1961	50.50	0.	3.7	0.
1960	51.50	57441.	3.4	196464.
1959	52.50	87104.	3.1	271290.
1958	53.50	1150.	2.8	3234.
TOTAL:		18849590.	25.0	471487045.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900. Meas & Reg Station Eqp City

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 31.0 YEARS CURVE: IOWA R1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0161	99.58142	0.41858	49.89535	0.032258	1.60952	1.19093	0.011959
1.50	0.0484	98.71703	0.86439	99.14922	0.032258	3.19834	3.52489	0.035707
2.50	0.0806	97.81449	0.90255	98.26576	0.032258	3.16984	5.79218	0.059216
3.50	0.1129	96.87448	0.94000	97.34448	0.032258	3.14012	7.99230	0.082502
4.50	0.1452	95.89652	0.97796	96.38550	0.032258	3.10919	10.12352	0.105567
5.50	0.1774	94.88232	1.01419	95.38942	0.032258	3.07706	12.18638	0.128437
6.50	0.2097	93.83064	1.05168	94.35648	0.032258	3.04374	14.17844	0.151107
7.50	0.2419	92.74142	1.08922	93.28603	0.032258	3.00921	16.09842	0.173584
8.50	0.2742	91.61755	1.12387	92.17949	0.032258	2.97351	17.94806	0.195902
9.50	0.3065	90.45752	1.16003	91.03753	0.032258	2.93667	19.72470	0.218055
10.50	0.3387	89.26238	1.19513	89.85995	0.032258	2.89869	21.42826	0.240059
11.50	0.3710	88.02926	1.23313	88.64582	0.032258	2.85952	23.05465	0.261898
12.50	0.4032	86.75532	1.27394	87.39229	0.032258	2.81909	24.59980	0.283554
13.50	0.4355	85.43942	1.31590	86.09737	0.032258	2.77731	26.06122	0.305026
14.50	0.4677	84.07687	1.36255	84.75815	0.032258	2.73411	27.43278	0.326282
15.50	0.5000	82.66500	1.41187	83.37094	0.032258	2.68937	28.71028	0.347309
16.50	0.5323	81.20000	1.46501	81.93250	0.032258	2.64296	29.88824	0.368082
17.50	0.5645	79.67877	1.52122	80.43938	0.032258	2.59480	30.96181	0.388583
18.50	0.5968	78.09797	1.58080	78.88837	0.032258	2.54477	31.92578	0.408791
19.50	0.6290	76.45603	1.64193	77.27700	0.032258	2.49279	32.77663	0.428699
20.50	0.6613	74.75006	1.70597	75.60305	0.032258	2.43879	33.50945	0.448287
21.50	0.6935	72.97694	1.77313	73.86350	0.032258	2.38268	34.11900	0.467531
22.50	0.7258	71.13822	1.83871	72.05758	0.032258	2.32442	34.60471	0.486443
23.50	0.7581	69.23194	1.90629	70.18508	0.032258	2.26402	34.96244	0.505005
24.50	0.7903	67.25784	1.97410	68.24489	0.032258	2.20143	35.18977	0.523207
25.50	0.8226	65.21655	2.04129	66.23719	0.032258	2.13667	35.28515	0.541046
26.50	0.8548	63.11019	2.10635	64.16337	0.032258	2.06977	35.24857	0.558524
27.50	0.8871	60.93971	2.17048	62.02495	0.032258	2.00079	35.07888	0.575632
28.50	0.9194	58.71003	2.22968	59.82487	0.032258	1.92982	34.77902	0.592386
29.50	0.9516	56.42303	2.28700	57.56653	0.032258	1.85697	34.34899	0.608776
30.50	0.9839	54.08287	2.34016	55.25295	0.032258	1.78234	33.79117	0.624804
31.50	1.0161	51.69516	2.38771	52.88902	0.032258	1.70609	33.10955	0.640477
32.50	1.0484	49.26626	2.42890	50.48071	0.032258	1.62840	32.30904	0.655805
33.50	1.0806	46.80232	2.46394	48.03429	0.032258	1.54948	31.39459	0.670791
34.50	1.1129	44.30942	2.49290	45.55587	0.032258	1.46953	30.37122	0.685435
35.50	1.1452	41.79590	2.51352	43.05266	0.032258	1.38879	29.24649	0.699745
36.50	1.1774	39.27132	2.52458	40.53361	0.032258	1.30753	28.02944	0.713738
37.50	1.2097	36.74329	2.52804	38.00731	0.032258	1.22603	26.72743	0.727410
38.50	1.2419	34.22222	2.52107	35.48276	0.032258	1.14460	25.35096	0.740775

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900. Meas & Reg Station Eqp City

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 31.0 YEARS CURVE: IOWA R1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.2742	31.71784	2.50438	32.97003	0.032258	1.06354	23.91012	0.753838
40.50	1.3065	29.24074	2.47710	30.47929	0.032258	0.98320	22.41622	0.766609
41.50	1.3387	26.80090	2.43984	28.02082	0.032258	0.90389	20.88027	0.779088
42.50	1.3710	24.41035	2.39055	25.60563	0.032258	0.82598	19.31571	0.791291
43.50	1.4032	22.07964	2.33071	23.24500	0.032258	0.74983	17.73483	0.803221
44.50	1.4355	19.82016	2.25948	20.94990	0.032258	0.67580	16.15114	0.814885
45.50	1.4677	17.64271	2.17745	18.73143	0.032258	0.60424	14.57793	0.826286
46.50	1.5000	15.55700	2.08571	16.59985	0.032258	0.53548	13.02769	0.837417
47.50	1.5323	13.57810	1.97890	14.56755	0.032258	0.46992	11.51871	0.848330
48.50	1.5645	11.71255	1.86555	12.64532	0.032258	0.40791	10.06107	0.858999
49.50	1.5968	9.97039	1.74216	10.84147	0.032258	0.34972	8.66863	0.869438
50.50	1.6290	8.35974	1.61065	9.16507	0.032258	0.29565	7.35363	0.879648
51.50	1.6613	6.88978	1.46997	7.62476	0.032258	0.24596	6.12962	0.889670
52.50	1.6935	5.56639	1.32339	6.22808	0.032258	0.20090	5.00714	0.899531
53.50	1.7258	4.39400	1.17239	4.98019	0.032258	0.16065	3.99540	0.909286
54.50	1.7581	3.37348	1.02052	3.88374	0.032258	0.12528	3.10017	0.918981
55.50	1.7903	2.50629	0.86719	2.93989	0.032258	0.09483	2.32781	0.928786
56.50	1.8226	1.79016	0.71613	2.14823	0.032258	0.06930	1.68098	0.939008
57.50	1.8548	1.21403	0.57613	1.50210	0.032258	0.04845	1.15330	0.949976
58.50	1.8871	0.76258	0.45145	0.98831	0.032258	0.03188	0.73373	0.962168
59.50	1.9194	0.41426	0.34832	0.58842	0.032258	0.01898	0.40439	0.976177
60.50	1.9516	0.17013	0.24413	0.29219	0.032258	0.00943	0.16969	0.997394
61.50	1.9839	0.03332	0.13681	0.10173	0.032258	0.00328	0.03616	1.000000
62.50	2.0161	0.00000	0.03332	0.01666	0.032258	0.00054	0.00000	1.000000
		3100.02225	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	1357520.	0.	0.	0.	0.	0.	0.	0.	0
2009	2262978.	0.	0.	0.	0.	0.	0.	0.	0
2008	5469118.	0.	0.	0.	0.	0.	0.	0.	0
2007	1453671.	0.	0.	0.	0.	0.	0.	0.	0
2006	170021.	0.	0.	0.	0.	0.	0.	0.	0
2005	449154.	0.	15233.	0.	0.	0.	0.	0.	0
2004	868942.	0.	0.	0.	0.	0.	0.	0.	0
2003	782606.	0.	0.	0.	0.	0.	0.	0.	0
2002	62572.	0.	0.	0.	0.	0.	0.	0.	0
2001	698110.	0.	5494.	0.	0.	0.	0.	0.	0
2000	590650.	0.	0.	0.	0.	0.	0.	0.	0
1999	429848.	0.	0.	0.	0.	0.	0.	0.	0
1998	136059.	0.	0.	0.	0.	0.	0.	0.	0
1997	941287.	0.	0.	0.	0.	0.	3081.	10266.	0
1996	31150.	0.	0.	0.	0.	0.	0.	0.	0
1995	73189.	0.	0.	0.	0.	0.	0.	0.	18324
1994	118927.	0.	0.	0.	0.	0.	0.	0.	0
1993	959292.	0.	0.	0.	0.	0.	0.	0.	0
1992	397400.	0.	0.	0.	0.	0.	0.	0.	0
1991	86486.	0.	0.	0.	0.	0.	0.	0.	0
1990	103728.	0.	0.	0.	0.	0.	0.	0.	0
1989	279542.	0.	0.	0.	0.	0.	18686.	0.	4677
1988	4674.	0.	0.	0.	0.	0.	0.	0.	0
1987	3949.	0.	0.	0.	0.	0.	0.	0.	0
1986	127142.	0.	0.	0.	0.	0.	0.	0.	0
1985	440.	0.	0.	0.	0.	0.	0.	0.	0
1984	208702.	0.	0.	0.	0.	0.	0.	0.	0
1983	98170.	0.	0.	0.	0.	0.	0.	0.	0
1982	86519.	0.	0.	0.	0.	0.	0.	0.	17338
1981	5592.	0.	0.	0.	0.	0.	0.	0.	0
1980	4030.	0.	0.	0.	0.	0.	0.	0.	0
1979	3496.	0.	0.	0.	0.	0.	0.	0.	0
1978	8887.	0.	0.	0.	0.	0.	0.	0.	0
1977	13675.	0.	0.	0.	0.	0.	0.	0.	0
1976	102.	0.	0.	0.	0.	0.	0.	0.	0
1975	81666.	0.	0.	6711.	0.	0.	0.	0.	2424
1974	78411.	0.	0.	0.	0.	0.	0.	0.	0
1973	887.	0.	0.	0.	0.	0.	0.	0.	0
1972	9110.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	1837.	0.	0.	0.	0.	0.	0.	0.	0
1969	81944.	0.	0.	0.	0.	1185.	0.	0.	0
1968	0.	0.	0.	0.	0.	0.	0.	0.	0
1967	48679.	0.	0.	0.	0.	0.	0.	0.	0
1966	15702.	0.	0.	0.	0.	0.	0.	0.	0
1965	42937.	0.	0.	592.	0.	0.	0.	0.	0
1964	49160.	0.	0.	0.	0.	0.	0.	0.	0
1963	1379.	0.	0.	0.	0.	0.	0.	0.	0
1962	4555.	0.	0.	0.	0.	0.	0.	0.	0
1961	0.	0.	0.	832.	0.	0.	0.	0.	0
1960	57441.	0.	0.	0.	0.	0.	0.	0.	0
1959	87104.	0.	0.	318.	0.	0.	3943.	4631.	0
1958	1150.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	18849590.	0.	20727.	8453.	0.	1185.	25710.	14897.	42763

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	1357520.	0.	0.	0.	0.	0.	0.	0.	0
2009	2262978.	0.	0.	0.	0.	0.	0.	0.	0
2008	5469118.	0.	0.	0.	0.	0.	0.	0.	0
2007	1453671.	0.	0.	0.	0.	0.	0.	0.	0
2006	170021.	0.	0.	0.	0.	0.	0.	0.	0
2005	449154.	0.	0.	0.	0.	0.	0.	0.	0
2004	868942.	0.	0.	0.	0.	0.	0.	0.	0
2003	782606.	0.	0.	0.	0.	0.	0.	0.	0
2002	62572.	0.	0.	0.	0.	0.	0.	0.	0
2001	698110.	0.	0.	0.	0.	0.	0.	0.	0
2000	590650.	0.	0.	0.	0.	0.	0.	0.	0
1999	429848.	0.	0.	0.	0.	0.	0.	0.	0
1998	136059.	0.	0.	0.	0.	0.	0.	0.	0
1997	941287.	0.	0.	0.	0.	0.	0.	0.	0
1996	31150.	0.	0.	0.	0.	3772.	0.	2894.	0
1995	73189.	0.	0.	0.	0.	0.	0.	0.	0
1994	118927.	0.	13086.	0.	0.	0.	0.	0.	0
1993	959292.	0.	8354.	25707.	0.	0.	0.	0.	0
1992	397400.	0.	9579.	0.	0.	0.	0.	0.	0
1991	86486.	30.	0.	5606.	0.	0.	0.	0.	0
1990	103728.	0.	0.	0.	9398.	0.	0.	0.	0
1989	279542.	0.	0.	0.	35672.	0.	0.	0.	0
1988	4674.	0.	9816.	0.	0.	0.	0.	0.	0
1987	3949.	0.	0.	0.	0.	27321.	0.	0.	0
1986	127142.	11239.	0.	0.	0.	0.	0.	0.	0
1985	440.	0.	0.	0.	0.	0.	0.	0.	0
1984	208702.	0.	0.	0.	0.	0.	0.	0.	0
1983	98170.	0.	4291.	541.	0.	0.	0.	0.	0
1982	86519.	0.	0.	2209.	0.	0.	0.	0.	0
1981	5592.	0.	0.	1036.	0.	0.	0.	0.	0
1980	4030.	0.	0.	0.	0.	0.	0.	0.	0
1979	3496.	0.	0.	832.	0.	0.	0.	0.	0
1978	8887.	0.	0.	0.	0.	0.	0.	0.	0
1977	13675.	0.	0.	0.	0.	0.	0.	0.	0
1976	102.	0.	0.	5199.	0.	0.	0.	0.	0
1975	81666.	0.	0.	35998.	0.	0.	0.	8912.	0
1974	78411.	0.	0.	0.	1317.	0.	0.	0.	0
1973	887.	0.	0.	0.	3860.	0.	4359.	0.	4750
1972	9110.	2928.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	1837.	0.	0.	0.	0.	0.	0.	0.	0
1969	81944.	0.	0.	0.	11532.	0.	0.	0.	0
1968	0.	0.	0.	0.	0.	0.	0.	0.	0
1967	48679.	0.	0.	0.	0.	0.	0.	0.	0
1966	15702.	0.	0.	0.	0.	0.	4047.	0.	3944
1965	42937.	705.	0.	0.	0.	0.	0.	0.	0
1964	49160.	0.	0.	0.	0.	0.	0.	3703.	0
1963	1379.	0.	0.	0.	0.	0.	0.	0.	0
1962	4555.	0.	0.	0.	0.	0.	0.	0.	0
1961	0.	0.	0.	0.	357.	0.	0.	0.	0
1960	57441.	0.	0.	0.	337.	0.	18491.	0.	0
1959	87104.	0.	0.	0.	6619.	0.	0.	0.	0
1958	1150.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	18849590.	14902.	45126.	77128.	69092.	31093.	26897.	15509.	8694

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	1357520.	0.	0.	0.	0.	0.	0.	0.	0
2009	2262978.	0.	0.	0.	0.	0.	0.	0.	0
2008	5469118.	0.	0.	0.	0.	0.	0.	0.	0
2007	1453671.	0.	0.	0.	0.	0.	0.	0.	0
2006	170021.	0.	0.	0.	0.	0.	0.	0.	0
2005	449154.	0.	0.	0.	0.	0.	0.	0.	0
2004	868942.	0.	0.	0.	0.	0.	0.	0.	0
2003	782606.	0.	0.	0.	0.	0.	0.	0.	0
2002	62572.	0.	0.	0.	0.	0.	0.	0.	0
2001	698110.	0.	0.	0.	0.	0.	0.	0.	0
2000	590650.	0.	0.	0.	0.	0.	0.	0.	0
1999	429848.	0.	0.	0.	0.	0.	0.	0.	0
1998	136059.	0.	0.	0.	0.	0.	0.	0.	0
1997	941287.	0.	0.	0.	0.	0.	0.	0.	0
1996	31150.	0.	0.	0.	0.	0.	0.	0.	0
1995	73189.	0.	0.	0.	0.	0.	0.	0.	0
1994	118927.	0.	0.	0.	0.	0.	0.	0.	0
1993	959292.	0.	0.	0.	0.	0.	0.	0.	0
1992	397400.	0.	0.	0.	0.	0.	0.	0.	0
1991	86486.	0.	0.	0.	0.	0.	0.	0.	0
1990	103728.	15942.	0.	0.	0.	0.	0.	0.	0
1989	279542.	0.	0.	12284.	0.	0.	0.	0.	0
1988	4674.	0.	0.	0.	0.	0.	0.	0.	0
1987	3949.	0.	0.	0.	0.	0.	0.	0.	0
1986	127142.	8330.	0.	3168.	0.	1242.	0.	0.	0
1985	440.	0.	0.	0.	0.	0.	0.	0.	0
1984	208702.	0.	5837.	0.	0.	0.	0.	0.	0
1983	98170.	0.	0.	0.	0.	0.	0.	0.	0
1982	86519.	0.	0.	0.	0.	0.	0.	0.	0
1981	5592.	0.	0.	0.	0.	0.	0.	0.	0
1980	4030.	0.	0.	0.	0.	0.	0.	0.	0
1979	3496.	0.	0.	0.	0.	0.	0.	0.	0
1978	8887.	0.	0.	0.	0.	0.	0.	0.	0
1977	13675.	0.	0.	0.	0.	0.	0.	0.	0
1976	102.	5588.	0.	0.	0.	0.	0.	0.	0
1975	81666.	0.	0.	0.	0.	0.	0.	0.	0
1974	78411.	0.	0.	0.	506.	511.	0.	0.	0
1973	887.	0.	0.	0.	0.	0.	0.	0.	0
1972	9110.	0.	0.	4485.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	1837.	2000.	0.	0.	1000.	0.	0.	0.	0
1969	81944.	0.	0.	1261.	500.	0.	18724.	0.	12362
1968	0.	0.	0.	0.	0.	0.	0.	0.	0
1967	48679.	0.	0.	0.	0.	0.	0.	0.	0
1966	15702.	0.	0.	12366.	0.	0.	8949.	0.	0
1965	42937.	0.	0.	0.	0.	3000.	0.	0.	0
1964	49160.	0.	0.	0.	792.	0.	0.	0.	0
1963	1379.	0.	0.	0.	0.	0.	0.	0.	0
1962	4555.	0.	0.	0.	0.	0.	3494.	0.	0
1961	0.	0.	0.	0.	832.	0.	0.	0.	0
1960	57441.	9611.	23181.	0.	7204.	0.	35538.	0.	544
1959	87104.	0.	0.	0.	0.	0.	0.	0.	18783
1958	1150.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	18849590.	41471.	29018.	33564.	10834.	4753.	66705.	0.	31689

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
2011	0.	0.	0.	0.	0.	0.
2010	1357520.	0.	0.	0.	0.	0.
2009	2262978.	0.	0.	0.	0.	0.
2008	5469118.	0.	0.	0.	0.	0.
2007	1453671.	0.	0.	0.	0.	0.
2006	170021.	0.	0.	0.	0.	0.
2005	449154.	0.	0.	0.	0.	0.
2004	868942.	0.	0.	0.	0.	0.
2003	782606.	0.	0.	0.	0.	0.
2002	62572.	0.	0.	0.	0.	0.
2001	698110.	0.	0.	0.	0.	0.
2000	590650.	0.	0.	0.	0.	0.
1999	429848.	0.	0.	0.	0.	0.
1998	136059.	0.	0.	0.	0.	0.
1997	941287.	0.	0.	0.	0.	0.
1996	31150.	0.	0.	0.	0.	0.
1995	73189.	0.	0.	0.	0.	0.
1994	118927.	0.	0.	0.	0.	0.
1993	959292.	0.	0.	0.	0.	0.
1992	397400.	0.	0.	0.	0.	0.
1991	86486.	0.	0.	0.	0.	0.
1990	103728.	0.	0.	0.	0.	0.
1989	279542.	0.	0.	0.	0.	0.
1988	4674.	0.	0.	0.	0.	0.
1987	3949.	0.	0.	0.	0.	0.
1986	127142.	0.	0.	0.	0.	0.
1985	440.	0.	0.	0.	0.	0.
1984	208702.	0.	0.	0.	0.	0.
1983	98170.	0.	0.	0.	0.	0.
1982	86519.	0.	0.	0.	0.	0.
1981	5592.	0.	0.	0.	0.	0.
1980	4030.	0.	0.	0.	0.	0.
1979	3496.	0.	0.	0.	0.	0.
1978	8887.	0.	0.	0.	0.	0.
1977	13675.	0.	0.	0.	0.	0.
1976	102.	0.	0.	0.	0.	0.
1975	81666.	0.	0.	0.	0.	0.
1974	78411.	0.	0.	0.	0.	0.
1973	887.	0.	0.	0.	4153.	0.
1972	9110.	0.	0.	0.	0.	12612.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1971	0.	0.	0.	0.	0.	0.
1970	1837.	0.	0.	0.	0.	0.
1969	81944.	4385.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.
1967	48679.	0.	0.	0.	0.	0.
1966	15702.	0.	0.	0.	0.	0.
1965	42937.	0.	0.	0.	0.	0.
1964	49160.	0.	0.	0.	0.	0.
1963	1379.	0.	0.	0.	0.	0.
1962	4555.	0.	0.	0.	7677.	0.
1961	0.	0.	0.	0.	0.	0.
1960	57441.	16962.	0.	0.	0.	0.
1959	87104.	3088.	9823.	0.	7713.	0.
1958	1150.	0.	0.	9899.	0.	0.
TOTAL	18849590.	24435.	9823.	9899.	19543.	12612.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	18455198.	0.	0.00000000	1.00000000	1.00000000
0.5	18561263.	2894.	0.00015592	0.99984408	1.00000000
1.5	17207477.	0.	0.00000000	1.00000000	0.99984408
2.5	14948529.	3772.	0.00025233	0.99974767	0.99984408
3.5	9479967.	12284.	0.00129579	0.99870421	0.99959179
4.5	8022899.	32417.	0.00404056	0.99595944	0.99829653
5.5	7834136.	0.	0.00000000	1.00000000	0.99426286
6.5	7395871.	3168.	0.00042835	0.99957165	0.99426286
7.5	6659472.	49059.	0.00736680	0.99263320	0.99383697
8.5	5908552.	43583.	0.00737626	0.99262374	0.98651557
9.5	5820406.	30420.	0.00522644	0.99477356	0.97923878
10.5	5121011.	52437.	0.01023958	0.98976042	0.97412085
11.5	4477924.	27351.	0.00610796	0.99389204	0.96414626
12.5	4025562.	0.	0.00000000	1.00000000	0.95825729
13.5	4021396.	9816.	0.00244094	0.99755906	0.95825729
14.5	3070293.	4677.	0.00152331	0.99847669	0.95591823
15.5	3083145.	0.	0.00000000	1.00000000	0.95446208
16.5	3054964.	30436.	0.00996280	0.99003720	0.95446208
17.5	2952835.	5432.	0.00183959	0.99816041	0.94495296
18.5	2041766.	24450.	0.01197493	0.98802507	0.94321464
19.5	1621295.	1036.	0.00063900	0.99936100	0.93191971
20.5	1549499.	23209.	0.01497839	0.98502161	0.93132422
21.5	1424583.	35759.	0.02510138	0.97489862	0.91737448
22.5	1278591.	5250.	0.00410608	0.99589392	0.89434711
23.5	1410689.	10210.	0.00723760	0.99276240	0.89067485
24.5	1407579.	19271.	0.01369088	0.98630912	0.88422850
25.5	1261166.	40315.	0.03196645	0.96803355	0.87212264
26.5	1220411.	52910.	0.04335425	0.95664575	0.84424397
27.5	958799.	7918.	0.00825825	0.99174175	0.80764241
28.5	852711.	21207.	0.02487009	0.97512991	0.80097270
29.5	744985.	39482.	0.05299704	0.94700296	0.78105243
30.5	699911.	15292.	0.02184849	0.97815151	0.73965897
31.5	680589.	11251.	0.01653127	0.98346873	0.72349853
32.5	665842.	3703.	0.00556138	0.99443862	0.71153818
33.5	653252.	29892.	0.04575876	0.95424124	0.70758105
34.5	609685.	9611.	0.01576388	0.98423612	0.67520302
35.5	599972.	0.	0.00000000	1.00000000	0.66455920
36.5	518306.	0.	0.00000000	1.00000000	0.66455920
37.5	439895.	20381.	0.04633151	0.95366849	0.66455920
38.5	418627.	357.	0.00085279	0.99914721	0.63376917

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	409161.	337.	0.00082364	0.99917636	0.63322870
40.5	408823.	6619.	0.01619038	0.98380962	0.63270715
41.5	400367.	0.	0.00000000	1.00000000	0.62246338
42.5	318424.	0.	0.00000000	1.00000000	0.62246338
43.5	318423.	592.	0.00185916	0.99814084	0.62246338
44.5	269152.	0.	0.00000000	1.00000000	0.62130612
45.5	253450.	4631.	0.01827185	0.98172815	0.62130612
46.5	205882.	3943.	0.01915175	0.98084825	0.60995371
47.5	152779.	832.	0.00544577	0.99455423	0.59827203
48.5	150568.	0.	0.00000000	1.00000000	0.59501397
49.5	146014.	318.	0.00217787	0.99782213	0.59501397
50.5	145695.	0.	0.00000000	1.00000000	0.59371811
51.5	88254.	0.	0.00000000	1.00000000	0.59371811
52.5	1150.	0.	0.00000000	1.00000000	0.59371811
TOTAL		696522.			42.84966099

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 57.948160 FIT INDEX 0.000941 VARIANCE 0.265811

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 52.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	18455198.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	18561263.	2894.	4270.	0.00015592	0.00023007	1.00000000	1.00000000	0.86	0.00862873
1.5	17207477.	0.	12057.	0.00000000	0.00070071	0.99984408	0.99976993	2.59	0.02565938
2.5	14948529.	3772.	17510.	0.00025233	0.00117135	0.99984408	0.99906938	4.31	0.04223905
3.5	9479967.	12284.	15566.	0.00129579	0.00164198	0.99959179	0.99789913	6.04	0.05838279
4.5	8022899.	32417.	16949.	0.00404056	0.00211262	0.99829653	0.99626059	7.77	0.07410510
5.5	7834136.	0.	20238.	0.00000000	0.00258326	0.99426286	0.99415587	9.49	0.08941998
6.5	7395871.	3168.	22586.	0.00042835	0.00305390	0.99426286	0.99158771	11.22	0.10434078
7.5	6659472.	49059.	23472.	0.00736680	0.00352453	0.99383697	0.98855950	12.94	0.11888040
8.5	5908552.	43583.	23606.	0.00737626	0.00399517	0.98651557	0.98507529	14.67	0.13305120
9.5	5820406.	30420.	25993.	0.00522644	0.00446581	0.97923878	0.98113975	16.39	0.14686514
10.5	5121011.	52437.	25280.	0.01023958	0.00493645	0.97412085	0.97675817	18.12	0.16033363
11.5	4477924.	27351.	24213.	0.00610796	0.00540708	0.96414626	0.97193645	19.85	0.17346769
12.5	4025562.	0.	23661.	0.00000000	0.00587772	0.95825729	0.96668111	21.57	0.18627796
13.5	4021396.	9816.	25529.	0.00244094	0.00634836	0.95825729	0.96099923	23.30	0.19877469
14.5	3070293.	4677.	20936.	0.00152331	0.00681900	0.95591823	0.95489846	25.02	0.21096764
15.5	3083145.	0.	22475.	0.00000000	0.00728963	0.95446208	0.94838701	26.75	0.22286634
16.5	3054964.	30436.	23707.	0.00996280	0.00776027	0.95446208	0.94147361	28.47	0.23447989
17.5	2952835.	5432.	24305.	0.00183959	0.00823091	0.94495296	0.93416752	30.20	0.24581710
18.5	2041766.	24450.	17767.	0.01197493	0.00870155	0.94321464	0.92647847	31.93	0.25688635
19.5	1621295.	1036.	14871.	0.00063900	0.00917219	0.93191971	0.91841668	33.65	0.26769591
20.5	1549499.	23209.	14942.	0.01497839	0.00964282	0.93132422	0.90999279	35.38	0.27825355
21.5	1424583.	35759.	14407.	0.02510138	0.01011346	0.91737448	0.90121789	37.10	0.28856692
22.5	1278591.	5250.	13533.	0.00410608	0.01058410	0.89434711	0.89210346	38.83	0.29864333
23.5	1410689.	10210.	15595.	0.00723760	0.01105474	0.89067485	0.88266135	40.55	0.30848983
24.5	1407579.	19271.	16223.	0.01369088	0.01152537	0.88422850	0.87290376	42.28	0.31811314
25.5	1261166.	40315.	15129.	0.03196645	0.01199601	0.87212264	0.86284322	44.00	0.32751988
26.5	1220411.	52910.	15214.	0.04335425	0.01246665	0.84424397	0.85249254	45.73	0.33671640
27.5	958799.	7918.	12404.	0.00825825	0.01293729	0.80764241	0.84186482	47.46	0.34570884
28.5	852711.	21207.	11433.	0.02487009	0.01340792	0.80097270	0.83097337	49.18	0.35450301
29.5	744985.	39482.	10339.	0.05299704	0.01387856	0.78105243	0.81983175	50.91	0.36310467
30.5	699911.	15292.	10043.	0.02184849	0.01434920	0.73965897	0.80845366	52.63	0.37151931
31.5	680589.	11251.	10086.	0.01653127	0.01481984	0.72349853	0.79685300	54.36	0.37975227

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 57.948160 FIT INDEX 0.000941 VARIANCE 0.265811

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	665842.	3703.	10181.	0.00556138	0.01529047	0.71153818	0.78504377	56.08	0.38780860
33.5	653252.	29892.	10296.	0.04575876	0.01576111	0.70758105	0.77304008	57.81	0.39569334
34.5	609685.	9611.	9896.	0.01576388	0.01623175	0.67520302	0.76085611	59.54	0.40341126
35.5	599972.	0.	10021.	0.00000000	0.01670239	0.66455920	0.74850608	61.26	0.41096699
36.5	518306.	0.	8901.	0.00000000	0.01717302	0.66455920	0.73600424	62.99	0.41836500
37.5	439895.	20381.	7761.	0.04633151	0.01764366	0.66455920	0.72336482	64.71	0.42560960
38.5	418627.	357.	7583.	0.00085279	0.01811430	0.63376917	0.71060202	66.44	0.43270498
39.5	409161.	337.	7604.	0.00082364	0.01858494	0.63322870	0.69772996	68.16	0.43965523
40.5	408823.	6619.	7790.	0.01619038	0.01905557	0.63270715	0.68476269	69.89	0.44646422
41.5	400367.	0.	7818.	0.00000000	0.01952621	0.62246338	0.67171415	71.62	0.45313580
42.5	318424.	0.	6367.	0.00000000	0.01999685	0.62246338	0.65859811	73.34	0.45967362
43.5	318423.	592.	6517.	0.00185916	0.02046749	0.62246338	0.64542823	75.07	0.46608118
44.5	269152.	0.	5636.	0.00000000	0.02093813	0.62130612	0.63221793	76.79	0.47236194
45.5	253450.	4631.	5426.	0.01827185	0.02140876	0.62130612	0.61898047	78.52	0.47851924
46.5	205882.	3943.	4505.	0.01915175	0.02187940	0.60995371	0.60572887	80.24	0.48455631
47.5	152779.	832.	3415.	0.00544577	0.02235004	0.59827203	0.59247588	81.97	0.49047623
48.5	150568.	0.	3436.	0.00000000	0.02282068	0.59501397	0.57923402	83.70	0.49628208
49.5	146014.	318.	3401.	0.00217787	0.02329131	0.59501397	0.56601551	85.42	0.50197672
50.5	145695.	0.	3462.	0.00000000	0.02376195	0.59371811	0.55283227	87.15	0.50756305
51.5	88254.	0.	2139.	0.00000000	0.02423259	0.59371811	0.53969590	88.87	0.51304377
52.5	1150.	0.	28.	0.00000000	0.02470323	0.59371811	0.52661767	90.60	0.51842159
TOTAL (EXCEPT AGE 0)	696522.	696522.							

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 57.948160 FIT INDEX 0.000941 VARIANCE 0.265811

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
53.5					0.02517386		0.51360851	92.32	0.52369909
54.5					0.02564450		0.50067900	94.05	0.52887875
55.5					0.02611514		0.48783934	95.78	0.53396300
56.5					0.02658578		0.47509935	97.50	0.53895421
57.5					0.02705641		0.46246846	99.23	0.54385465
58.5					0.02752705		0.44995572	100.95	0.54866653
59.5					0.02799769		0.43756977	102.68	0.55339202
60.5					0.02846833		0.42531883	104.40	0.55803320
61.5					0.02893896		0.41321071	106.13	0.56259209
62.5					0.02940960		0.40125282	107.86	0.56707067
63.5					0.02988024		0.38945213	109.58	0.57147085
64.5					0.03035088		0.37781521	111.31	0.57579446
65.5					0.03082151		0.36634819	113.03	0.58004333
66.5					0.03129215		0.35505678	114.76	0.58421921
67.5					0.03176279		0.34394629	116.48	0.58832377
68.5					0.03223343		0.33302160	118.21	0.59235870
69.5					0.03270407		0.32228717	119.93	0.59632554
70.5					0.03317470		0.31174707	121.66	0.60022592
71.5					0.03364534		0.30140495	123.39	0.60406133
72.5					0.03411598		0.29126408	125.11	0.60783325
73.5					0.03458662		0.28132732	126.84	0.61154310
74.5					0.03505725		0.27159716	128.56	0.61519227
75.5					0.03552789		0.26207571	130.29	0.61878215
76.5					0.03599853		0.25276471	132.01	0.62231403
77.5					0.03646917		0.24366556	133.74	0.62578919
78.5					0.03693980		0.23477928	135.47	0.62920889
79.5					0.03741044		0.22610658	137.19	0.63257434
80.5					0.03788108		0.21764783	138.92	0.63588671
81.5					0.03835172		0.20940309	140.64	0.63914719
82.5					0.03882235		0.20137213	142.37	0.64235684
83.5					0.03929299		0.19355439	144.09	0.64551680
84.5					0.03976363		0.18594906	145.82	0.64862810
85.5					0.04023427		0.17855505	147.55	0.65169181

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 57.948160 FIT INDEX 0.000941 VARIANCE 0.265811

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 52.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
86.5					0.04070490		0.17137101	149.27	0.65470892
87.5					0.04117554		0.16439537	151.00	0.65768041
88.5					0.04164618		0.15762630	152.72	0.66060725
89.5					0.04211682		0.15106177	154.45	0.66349039
90.5					0.04258746		0.14469953	156.17	0.66633070
91.5					0.04305809		0.13853715	157.90	0.66912910
92.5					0.04352873		0.13257200	159.63	0.67188644
93.5					0.04399937		0.12680131	161.35	0.67460356
94.5					0.04447001		0.12122213	163.08	0.67728129
95.5					0.04494064		0.11583138	164.80	0.67992043
96.5					0.04541128		0.11062585	166.53	0.68252179
97.5					0.04588192		0.10560218	168.25	0.68508613
98.5					0.04635256		0.10075695	169.98	0.68761418
99.5					0.04682319		0.09608661	171.71	0.69010670
100.5					0.04729383		0.09158753	173.43	0.69256438
101.5					0.04776447		0.08725600	175.16	0.69498792
102.5					0.04823511		0.08308827	176.88	0.69737801
103.5					0.04870574		0.07908050	178.61	0.69973532
104.5					0.04917638		0.07522882	180.33	0.70206050
105.5					0.04964702		0.07152934	182.06	0.70435420
106.5					0.05011766		0.06797812	183.78	0.70661705
107.5					0.05058829		0.06457122	185.51	0.70884965
108.5					0.05105893		0.06130467	187.24	0.71105261
109.5					0.05152957		0.05817452	188.96	0.71322650
110.5					0.05200021		0.05517681	190.69	0.71537192
111.5					0.05247084		0.05230761	192.41	0.71748943
112.5					0.05294148		0.04956298	194.14	0.71957960
113.5					0.05341212		0.04693904	195.86	0.72164297
114.5					0.05388276		0.04443193	197.59	0.72368007
115.5					0.05435340		0.04203781	199.32	0.72569145
116.5					0.05482403		0.03975292	201.04	0.72767764
117.5					0.05529467		0.03757350	202.77	0.72963911
118.5					0.05576531		0.03549589	204.49	0.73157643

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 57.948160 FIT INDEX 0.000941 VARIANCE 0.265811

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	FITTED RANGE AGE 0.5 TO 52.5 RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
119.5					0.05623595		0.03351645	206.22	0.73349005
120.5					0.05670658		0.03163162	207.94	0.73538051
121.5					0.05717722		0.02983790	209.67	0.73724829
122.5					0.05764786		0.02813185	211.40	0.73909386
123.5					0.05811850		0.02651011	213.12	0.74091772
124.5					0.05858913		0.02496938	214.85	0.74272035
125.5					0.05905977		0.02350645	216.57	0.74450222
126.5					0.05953041		0.02211816	218.30	0.74626382
127.5					0.06000105		0.02080146	220.02	0.74800564
128.5					0.06047168		0.01955335	221.75	0.74972815
129.5					0.06094232		0.01837093	223.48	0.75143186
130.5					0.06141296		0.01725136	225.20	0.75311722
131.5					0.06188360		0.01619190	226.93	0.75478475
132.5					0.06235423		0.01518989	228.65	0.75643491
133.5					0.06282487		0.01424273	230.38	0.75806823
134.5					0.06329551		0.01334794	232.10	0.75968521
135.5					0.06376615		0.01250307	233.83	0.76128638
136.5					0.06423679		0.01170580	235.56	0.76287226
137.5					0.06470742		0.01095386	237.28	0.76444341
138.5					0.06517806		0.01024506	239.01	0.76600038
139.5					0.06564870		0.00957731	240.73	0.76754375
140.5					0.06611934		0.00894857	242.46	0.76907413
141.5					0.06658997		0.00835690	244.18	0.77059214
142.5					0.06706061		0.00780041	245.91	0.77209843
143.5					0.06753125		0.00727731	247.64	0.77359365
144.5					0.06800189		0.00678586	249.36	0.77507854
145.5					0.06847252		0.00632441	251.09	0.77655383
146.5					0.06894316		0.00589136	252.81	0.77802031
147.5					0.06941380		0.00548520	254.54	0.77947882
148.5					0.06988444		0.00510445	256.26	0.78093022
149.5					0.07035507		0.00474773	257.99	0.78237546
150.5					0.07082571		0.00441370	259.71	0.78381554
151.5					0.07129635		0.00410110	261.44	0.78525151

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 57.948160 FIT INDEX 0.000941 VARIANCE 0.265811

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
152.5					0.07176699		0.00380870	263.17	0.78668452
153.5					0.07223762		0.00353536	264.89	0.78811581
154.5					0.07270826		0.00327998	266.62	0.78954667
155.5					0.07317890		0.00304150	268.34	0.79097853
156.5					0.07364954		0.00281892	270.07	0.79241291
157.5					0.07412017		0.00261131	271.79	0.79385150
158.5					0.07459081		0.00241776	273.52	0.79529609
159.5					0.07506145		0.00223742	275.25	0.79674861
160.5					0.07553209		0.00206947	276.97	0.79821119
161.5					0.07600273		0.00191316	278.70	0.79968616
162.5					0.07647336		0.00176776	280.42	0.80117602
163.5					0.07694400		0.00163257	282.15	0.80268353
164.5					0.07741464		0.00150695	283.87	0.80421170
165.5					0.07788528		0.00139029	285.60	0.80576381
166.5					0.07835591		0.00128201	287.33	0.80734348
167.5					0.07882655		0.00118156	289.05	0.80895466
168.5					0.07929719		0.00108842	290.78	0.81060171
169.5					0.07976783		0.00100211	292.50	0.81228938
170.5					0.08023846		0.00092217	294.23	0.81402292
171.5					0.08070910		0.00084818	295.95	0.81580812
172.5					0.08117974		0.00077972	297.68	0.81765133
173.5					0.08165038		0.00071643	299.41	0.81955957
174.5					0.08212101		0.00065793	301.13	0.82154057
175.5					0.08259165		0.00060390	302.86	0.82360290
176.5					0.08306229		0.00055402	304.58	0.82575596
177.5					0.08353293		0.00050800	306.31	0.82801020
178.5					0.08400356		0.00046557	308.03	0.83037714
179.5					0.08447420		0.00042646	309.76	0.83286959
180.5					0.08494484		0.00039044	311.49	0.83550165
181.5					0.08541548		0.00035727	313.21	0.83828899
182.5					0.08588611		0.00032675	314.94	0.84124900
183.5					0.08635675		0.00029869	316.66	0.84440095
184.5					0.08682739		0.00027290	318.39	0.84776622

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 57.948160 FIT INDEX 0.000941 VARIANCE 0.265811

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
185.5					0.08729803		0.00024920	320.11	0.85136857
186.5					0.08776867		0.00022745	321.84	0.85523437
187.5					0.08823930		0.00020748	323.57	0.85939299
188.5					0.08870994		0.00018918	325.29	0.86387703
189.5					0.08918058		0.00017239	327.02	0.86872281
190.5					0.08965122		0.00015702	328.74	0.87397077
191.5					0.09012185		0.00014294	330.47	0.87966593
192.5					0.09059249		0.00013006	332.19	0.88585848
193.5					0.09106313		0.00011828	333.92	0.89260438
194.5					0.09153377		0.00010751	335.64	0.89996605
195.5					0.09200440		0.00009767	337.37	0.90801317
196.5					0.09247504		0.00008868	339.10	0.91682352
197.5					0.09294568		0.00008048	340.82	0.92648402
198.5					0.09341632		0.00007300	342.55	0.93709180
199.5					0.09388695		0.00006618	344.27	0.94875550
200.5					0.09435759		0.00005997	346.00	0.96159663
201.5					0.09482823		0.00005431	347.72	0.97575123
202.5							0.00004916	349.45	0.99137160

EQUIVALENT H CURVE IS 1.63

EQUIVALENT L CURVE IS 1.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS -0.50

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = -0.52483248E-05 0.47063761E-03 (X)

$$\text{QUADRATIC} \quad YEST(I) = -0.17223042E-02 \; 0.88377385E-03 \; (X) \; -0.11836395E-04 \; (X^2)$$

$$\text{CUBIC} \quad YEST(I) = 0.88841461E-03 \; -0.22193607E-03 \; (X) \; 0.65229991E-04 \; (X^2) \; -0.12627998E-05 \; (X^3)$$

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	39.66	0.003640	321.47	1.98	1.50	0.00	1.00
1984	1988	35.56	0.003840	307.96	2.18	2.00	0.50	1.50
1985	1989	39.73	0.003357	310.86	2.14	2.00	0.50	1.50
1986	1990	32.33	0.003741	301.62	2.25	2.00	0.50	1.50
1987	1991	33.77	0.003715	309.48	2.15	2.00	0.50	1.50
1988	1992	36.12	0.003670	314.21	2.10	2.00	0.50	1.50
1989	1993	38.71	0.004073	334.56	1.84	1.50	0.00	1.00
1990	1994	35.21	0.004027	328.08	1.90	1.50	0.00	1.00
1991	1995	43.42	0.002242	355.81	1.56	1.00	-0.50	0.50
1992	1996	43.82	0.002080	350.33	1.61	1.00	-0.50	0.50
1993	1997	45.56	0.002028	354.48	1.57	1.00	-0.50	0.50
1994	1998	43.53	0.002262	334.27	1.83	1.50	0.00	1.00
1995	1999	50.09	0.002161	352.37	1.60	1.00	-0.50	0.50
1996	2000	46.45	0.002380	347.69	1.65	1.00	-0.50	0.50
1997	2001	41.22	0.003040	353.01	1.59	1.00	-0.50	0.50
1998	2002	42.21	0.003042	363.70	1.45	1.00	-0.50	0.50
1999	2003	48.54	0.002720	380.09	1.27	0.50	SC	0.50
2000	2004	48.24	0.002710	374.17	1.34	0.50	SC	0.50
2001	2005	58.83	0.002674	373.09	1.34	0.50	SC	0.50
2002	2006	74.31	0.001377	373.41	1.35	0.50	SC	0.50
2003	2007	82.80	0.001188	356.90	1.55	1.00	-0.50	0.50
2004	2008	96.14	0.000881	358.34	1.53	1.00	-0.50	0.50
2005	2009	107.29	0.000562	347.19	1.68	1.00	-0.50	0.50
2006	2010	131.49	0.000438	303.07	1.56	1.00	-0.50	0.50
2007	2011	207.81	0.000320	191.76	1.75	1.50	0.00	0.50

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	207.81	0.000320	191.76	1.75	1.50	0.00	0.50
2006	2011	147.51	0.000368	270.15	1.58	1.00	-0.50	0.50
2005	2011	136.28	0.000369	292.41	1.58	1.00	-0.50	0.50
2004	2011	117.46	0.000477	339.27	1.54	1.00	-0.50	0.50
2003	2011	112.70	0.000492	353.60	1.55	1.00	-0.50	0.50
2002	2011	110.02	0.000498	362.21	1.47	1.00	-0.50	0.50
2001	2011	90.02	0.000796	361.58	1.49	1.00	-0.50	0.50
2000	2011	79.95	0.000820	360.86	1.49	1.00	-0.50	0.50
1999	2011	80.15	0.000803	363.72	1.46	1.00	-0.50	0.50
1998	2011	73.98	0.000857	358.90	1.53	1.00	-0.50	0.50
1997	2011	73.44	0.000836	357.46	1.53	1.00	-0.50	0.50
1996	2011	73.22	0.000811	357.13	1.54	1.00	-0.50	0.50
1995	2011	71.37	0.000785	358.00	1.52	1.00	-0.50	0.50
1994	2011	68.05	0.000862	356.34	1.56	1.00	-0.50	0.50
1993	2011	67.02	0.000824	357.35	1.55	1.00	-0.50	0.50
1992	2011	66.41	0.000816	356.10	1.56	1.00	-0.50	0.50
1991	2011	66.73	0.000808	355.89	1.56	1.00	-0.50	0.50
1990	2011	61.34	0.000916	352.94	1.60	1.00	-0.50	0.50
1989	2011	61.86	0.000888	353.21	1.60	1.00	-0.50	0.50
1988	2011	60.14	0.000891	351.66	1.61	1.00	-0.50	0.50
1987	2011	59.00	0.000906	350.02	1.63	1.00	-0.50	0.50
1986	2011	58.73	0.000903	349.89	1.63	1.00	-0.50	0.50
1985	2011	58.44	0.000926	349.91	1.64	1.00	-0.50	0.50
1984	2011	57.88	0.000937	349.84	1.64	1.00	-0.50	0.50
1983	2011	57.95	0.000941	349.45	1.63	1.00	-0.50	0.50

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	34.59	0.003566	206.70	3.35	3.00	2.00	3.00
1984	1988	32.91	0.003642	195.99	3.76	4.00	3.00	3.00
1985	1989	35.74	0.003256	200.08	3.69	4.00	3.00	3.00
1986	1990	32.14	0.003556	200.70	3.64	4.00	3.00	3.00
1987	1991	33.28	0.003696	223.88	3.07	3.00	2.00	2.50
1988	1992	35.16	0.003680	231.77	2.89	3.00	1.50	2.50
1989	1993	37.27	0.004107	264.32	2.28	2.00	0.50	1.50
1990	1994	34.56	0.004026	238.69	2.59	3.00	1.00	2.00
1991	1995	39.73	0.002221	240.35	2.38	2.00	1.00	1.50
1992	1996	40.94	0.002083	257.69	2.22	2.00	0.50	1.50
1993	1997	43.87	0.002046	297.47	1.86	1.50	0.00	1.00
1994	1998	41.00	0.002227	228.04	2.77	3.00	1.50	2.00
1995	1999	49.44	0.002182	330.72	1.69	1.00	-0.50	0.50
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	86.42	0.000565	253.99	2.43	2.00	1.00	1.50
2006	2010	125.61	0.000442	317.24	1.72	1.00	-0.50	0.50
2007	2011	133.61	0.000323	245.86	2.52	2.00	1.00	2.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	133.61	0.000323	245.86	2.52	2.00	1.00	2.00
2006	2011	144.44	0.000372	275.89	1.65	1.00	-0.50	0.50
2005	2011	106.50	0.000372	261.50	2.29	2.00	0.50	1.50
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1983	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	29.67	0.003358	160.09	3.38	3.00	2.00	3.00
1984	1988	30.73	0.003564	161.08	4.04	4.00	3.00	3.00
1985	1989	34.43	0.003274	169.93	4.42	4.00	3.00	4.00
1986	1990	31.86	0.003585	183.63	3.99	4.00	3.00	3.00
1987	1991	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	36.39	0.002177	179.99	2.83	3.00	1.50	2.00
1992	1996	39.10	0.002100	211.01	2.50	2.00	1.00	2.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	39.93	0.002243	196.57	3.03	3.00	2.00	2.50
1995	1999	44.19	0.002201	213.84	2.37	2.00	1.00	1.50
1996	2000	41.90	0.002409	213.59	2.22	2.00	0.50	1.50
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	57.43	0.001353	181.95	2.59	3.00	1.00	2.00
2003	2007	69.16	0.001198	193.04	2.57	3.00	1.00	2.00
2004	2008	69.66	0.000889	183.02	3.01	3.00	2.00	2.50
2005	2009	72.00	0.000569	188.19	3.38	3.00	2.00	3.00
2006	2010	90.61	0.000446	199.20	2.93	3.00	1.50	2.50
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 37900 Meas & Reg Station Eqp City

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	103.82	0.000375	205.65	2.83	3.00	1.50	2.00
2005	2011	79.32	0.000375	183.43	3.53	4.00	2.00	3.00
2004	2011	88.01	0.000485	194.87	2.84	3.00	1.50	2.50
2003	2011	123.52	0.000500	206.84	2.13	2.00	0.50	1.50
2002	2011	78.63	0.000496	182.49	2.99	3.00	1.50	2.50
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1983	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 379.00 - Meas & Reg Station Eqp City
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	20,727	0	0	0	0	0	0
2009	8,454	(6,136)	(73)	0	0	(6,136)	(73)
2008	0	0	0	0	0	0	0
2007	1,185	0	0	0	0	0	0
2006	25,710	(45,893)	(179)	797	3	(45,096)	(175)
2005	14,896	(20,348)	(137)	0	0	(20,348)	(137)
2004	42,763	(12,022)	(28)	0	0	(12,022)	(28)
2003	14,902	(55,629)	(373)	0	0	(55,629)	(373)
2002	45,126	(12,287)	(27)	0	0	(12,287)	(27)
2001	77,129	0	0	0	0	0	0
2000	69,091	(6,430)	(9)	0	0	(6,430)	(9)
1999	31,093	0	0	0	0	0	0
1998	26,897	0	0	0	0	0	0
1997	12,616	0	0	0	0	0	0
1996	8,694	0	0	0	0	0	0
1995	41,471	(1,211)	(3)	0	0	(1,211)	(3)
1994	29,019	(1,224)	(4)	0	0	(1,224)	(4)
1993	33,564	(1,011)	(3)	0	0	(1,011)	(3)
1992	10,834	0	0	0	0	0	0
1991	4,753	(2,432)	(51)	0	0	(2,432)	(51)
1990	66,705	(19,009)	(28)	0	0	(19,009)	(28)
1989	0	0	0	0	0	0	0
1988	31,689	(1,767)	(6)	0	0	(1,767)	(6)
1987	24,435	(283)	(1)	0	0	(283)	(1)
1986	9,823	(637)	(6)	0	0	(637)	(6)
1985	9,899	0	0	0	0	0	0
1984	19,542	(1,659)	(8)	0	0	(1,659)	(8)
1983	12,612	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	693,629	**(187,979)**	**(27)**	**797**	**0**	**(187,182)**	**(27)**

Peoples Gas System
Net Salvage Analysis
Account - 379.00 - Meas & Reg Station Eqp City
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	56,076	(52,029)	(93)	797	1	(51,232)	(91)
2009	50,244	(72,377)	(144)	797	2	(71,580)	(142)
2008	84,554	(78,263)	(93)	797	1	(77,466)	(92)
2007	99,456	(133,892)	(135)	797	1	(133,095)	(134)
2006	143,398	(146,179)	(102)	797	1	(145,383)	(101)
2005	194,817	(100,286)	(51)	0	0	(100,286)	(51)
2004	249,012	(86,369)	(35)	0	0	(86,369)	(35)
2003	237,342	(74,347)	(31)	0	0	(74,347)	(31)
2002	249,337	(18,718)	(8)	0	0	(18,718)	(8)
2001	216,826	(6,430)	(3)	0	0	(6,430)	(3)
2000	148,391	(6,430)	(4)	0	0	(6,430)	(4)
1999	120,771	(1,211)	(1)	0	0	(1,211)	(1)
1998	118,696	(2,435)	(2)	0	0	(2,435)	(2)
1997	125,363	(3,446)	(3)	0	0	(3,446)	(3)
1996	123,581	(3,446)	(3)	0	0	(3,446)	(3)
1995	119,639	(5,878)	(5)	0	0	(5,878)	(5)
1994	144,874	(23,676)	(16)	0	0	(23,676)	(16)
1993	115,855	(22,452)	(19)	0	0	(22,452)	(19)
1992	113,980	(23,207)	(20)	0	0	(23,207)	(20)
1991	127,582	(23,491)	(18)	0	0	(23,491)	(18)
1990	132,652	(21,696)	(16)	0	0	(21,696)	(16)
1989	75,847	(2,687)	(4)	0	0	(2,687)	(4)
1988	95,389	(4,346)	(5)	0	0	(4,346)	(5)
1987	76,312	(2,580)	(3)	0	0	(2,580)	(3)
1986	51,876	(2,297)	(4)	0	0	(2,297)	(4)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -100.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	634209.	0.015381	9755.	624454.
2010	1.50	988328.	0.046044	45506.	942822.
2009	2.50	892632.	0.076564	68344.	824288.
2008	3.50	1104626.	0.106930	118118.	986508.
2007	4.50	1157285.	0.137098	158661.	998624.
2006	5.50	776959.	0.167048	129790.	647169.
2005	6.50	728921.	0.196762	143424.	585497.
2004	7.50	638080.	0.226207	144338.	493742.
2003	8.50	755175.	0.255353	192837.	562338.
2002	9.50	1262751.	0.284184	358854.	903897.
2001	10.50	43906.	0.312661	13728.	30178.
2000	11.50	2190267.	0.340771	746380.	1443887.
1999	12.50	1181120.	0.368485	435225.	745895.
1998	13.50	1213978.	0.395771	480457.	733521.
1997	14.50	963546.	0.422627	407220.	556326.
1996	15.50	569716.	0.449025	255817.	313899.
1995	16.50	649614.	0.474950	308534.	341080.
1994	17.50	1038467.	0.500387	519635.	518832.
1993	18.50	912136.	0.525323	479166.	432970.
1992	19.50	1033302.	0.549730	568038.	465264.
1991	20.50	1268541.	0.573593	727626.	540915.
1990	21.50	929845.	0.596876	555002.	374843.
1989	22.50	816294.	0.619567	505749.	310545.
1988	23.50	735316.	0.641628	471799.	263517.
1987	24.50	617629.	0.663019	409500.	208129.
1986	25.50	529186.	0.683705	361807.	167379.
1985	26.50	709728.	0.703638	499391.	210337.
1984	27.50	486158.	0.722781	351386.	134772.
1983	28.50	443434.	0.741076	328618.	114816.
1982	29.50	503360.	0.758493	381795.	121565.
1981	30.50	577940.	0.775002	447905.	130035.
1980	31.50	291667.	0.790589	230589.	61078.
1979	32.50	693718.	0.805244	558612.	135106.
1978	33.50	770155.	0.818969	630733.	139422.
1977	34.50	401855.	0.831790	334259.	67596.
1976	35.50	487819.	0.843733	411589.	76230.
1975	36.50	711046.	0.854857	607843.	103203.
1974	37.50	1099937.	0.865239	951708.	148229.
1973	38.50	1217127.	0.874954	1064931.	152196.
1972	39.50	806015.	0.884110	712606.	93409.
1971	40.50	676414.	0.892814	603912.	72502.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -100.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	404766.	0.901179	364767.	39999.
1969	42.50	521746.	0.909316	474432.	47314.
1968	43.50	526627.	0.917322	483087.	43540.
1967	44.50	763211.	0.925284	706187.	57024.
1966	45.50	694914.	0.933252	648530.	46384.
1965	46.50	296212.	0.941201	278795.	17417.
1964	47.50	301735.	0.949088	286373.	15362.
1963	48.50	222783.	0.956847	213169.	9614.
1962	49.50	180920.	0.964449	174488.	6432.
1961	50.50	199487.	0.971984	193898.	5589.
1960	51.50	472540.	0.979788	462989.	9551.
1959	52.50	1127187.	0.992970	1119262.	7925.
1958	53.50	228201.	1.000000	228201.	0.
1957	54.50	105427.	1.000000	105427.	0.
1956	55.50	94522.	1.000000	94522.	0.
1955	56.50	56590.	1.000000	56590.	0.
1954	57.50	32962.	1.000000	32962.	0.
1953	58.50	48816.	1.000000	48816.	0.
1952	59.50	36682.	1.000000	36682.	0.
1951	60.50	69493.	1.000000	69493.	0.
1950	61.50	15537.	1.000000	15537.	0.
1949	62.50	19829.	1.000000	19829.	0.
1948	63.50	86544.	1.000000	86544.	0.
1947	64.50	17766.	1.000000	17766.	0.
1946	65.50	18158.	1.000000	18158.	0.
1945	66.50	1458.	1.000000	1458.	0.
1944	67.50	8322.	1.000000	8322.	0.
1943	68.50	28010.	1.000000	28010.	0.
1942	69.50	8297.	1.000000	8297.	0.
1941	70.50	8619.	1.000000	8619.	0.
1940	71.50	81.	1.000000	81.	0.
1939	72.50	2089.	1.000000	2089.	0.
1938	73.50	40189.	1.000000	40189.	0.
1937	74.50	6319.	1.000000	6319.	0.
1936	75.50	6522.	1.000000	6522.	0.
1935	76.50	0.	1.000000	0.	0.
1934	77.50	5145.	1.000000	5145.	0.
1933	78.50	4486.	1.000000	4486.	0.
1932	79.50	1479.	1.000000	1479.	0.
1931	80.50	49071.	1.000000	49071.	0.
1930	81.50	86137.	1.000000	86137.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -100.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1929	82.50	0.	1.000000	0.	0.
1928	83.50	365.	1.000000	365.	0.
1927	84.50	15417.	1.000000	15417.	0.
1926	85.50	9128.	1.000000	9128.	0.
SUBTOTAL :			0.576436	23248824.	17083167.
NET SALVAGE: -100.0%				23248824.	-23248824.
TOTAL :		40331991.	1.152873	46497647.	-6165656.

WEIGHTED AGE: 24.3 YEARS
REMAINING LIFE: 13.6 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -100.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	634209.	0.031250	19819.
2010	1.50 - 2.50	988328.	0.031250	30885.
2009	2.50 - 3.50	892632.	0.031250	27895.
2008	3.50 - 4.50	1104626.	0.031250	34520.
2007	4.50 - 5.50	1157285.	0.031250	36165.
2006	5.50 - 6.50	776959.	0.031250	24280.
2005	6.50 - 7.50	728921.	0.031250	22779.
2004	7.50 - 8.50	638080.	0.031250	19940.
2003	8.50 - 9.50	755175.	0.031250	23599.
2002	9.50 - 10.50	1262751.	0.031250	39461.
2001	10.50 - 11.50	43906.	0.031250	1372.
2000	11.50 - 12.50	2190267.	0.031250	68446.
1999	12.50 - 13.50	1181120.	0.031250	36910.
1998	13.50 - 14.50	1213978.	0.031250	37937.
1997	14.50 - 15.50	963546.	0.031250	30111.
1996	15.50 - 16.50	569716.	0.031250	17804.
1995	16.50 - 17.50	649614.	0.031250	20300.
1994	17.50 - 18.50	1038467.	0.031250	32452.
1993	18.50 - 19.50	912136.	0.031250	28504.
1992	19.50 - 20.50	1033302.	0.031250	32291.
1991	20.50 - 21.50	1268541.	0.031250	39642.
1990	21.50 - 22.50	929845.	0.031250	29058.
1989	22.50 - 23.50	816294.	0.031250	25509.
1988	23.50 - 24.50	735316.	0.031250	22979.
1987	24.50 - 25.50	617629.	0.031250	19301.
1986	25.50 - 26.50	529186.	0.031250	16537.
1985	26.50 - 27.50	709728.	0.031250	22179.
1984	27.50 - 28.50	486158.	0.031250	15192.
1983	28.50 - 29.50	443434.	0.031250	13857.
1982	29.50 - 30.50	503360.	0.031250	15730.
1981	30.50 - 31.50	577940.	0.031250	18061.
1980	31.50 - 32.50	291667.	0.031250	9115.
1979	32.50 - 33.50	693718.	0.031250	21679.
1978	33.50 - 34.50	770155.	0.031250	24067.
1977	34.50 - 35.50	401855.	0.031250	12558.
1976	35.50 - 36.50	487819.	0.031250	15244.
1975	36.50 - 37.50	711046.	0.031250	22220.
1974	37.50 - 38.50	1099937.	0.031250	34373.
1973	38.50 - 39.50	1217127.	0.031250	38035.
1972	39.50 - 40.50	806015.	0.031250	25188.
1971	40.50 - 41.50	676414.	0.031250	21138.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -100.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	404766.	0.031250	12649.
1969	42.50 - 43.50	521746.	0.031250	16305.
1968	43.50 - 44.50	526627.	0.031250	16457.
1967	44.50 - 45.50	763211.	0.031250	23850.
1966	45.50 - 46.50	694914.	0.031250	21716.
1965	46.50 - 47.50	296212.	0.031250	9257.
1964	47.50 - 48.50	301735.	0.031250	9429.
1963	48.50 - 49.50	222783.	0.031250	6962.
1962	49.50 - 50.50	180920.	0.031250	5654.
1961	50.50 - 51.50	199487.	0.031250	6234.
1960	51.50 - 52.50	472540.	0.031250	14767.
1959	52.50 - 53.50	1127187.	0.031250	35225.
1958	53.50 - 54.50	228201.	0.031250	7131.
1957	54.50 - 55.50	105427.	0.031250	3295.
1956	55.50 - 56.50	94522.	0.031250	2954.
1955	56.50 - 57.50	56590.	0.031250	1768.
1954	57.50 - 58.50	32962.	0.031250	1030.
1953	58.50 - 59.50	48816.	0.031250	1526.
1952	59.50 - 60.50	36682.	0.031250	1146.
1951	60.50 - 61.50	69493.	0.031250	2172.
1950	61.50 - 62.50	15537.	0.031250	486.
1949	62.50 - 63.50	19829.	0.031250	620.
1948	63.50 - 64.50	86544.	0.031250	2705.
1947	64.50 - 65.50	17766.	0.031250	555.
1946	65.50 - 66.50	18158.	0.031250	567.
1945	66.50 - 67.50	1458.	0.031250	46.
1944	67.50 - 68.50	8322.	0.031250	260.
1943	68.50 - 69.50	28010.	0.031250	875.
1942	69.50 - 70.50	8297.	0.031250	259.
1941	70.50 - 71.50	8619.	0.031250	269.
1940	71.50 - 72.50	81.	0.031250	3.
1939	72.50 - 73.50	2089.	0.031250	65.
1938	73.50 - 74.50	40189.	0.031250	1256.
1937	74.50 - 75.50	6319.	0.031250	197.
1936	75.50 - 76.50	6522.	0.031250	204.
1935	76.50 - 77.50	0.	0.031250	0.
1934	77.50 - 78.50	5145.	0.031250	161.
1933	78.50 - 79.50	4486.	0.031250	140.
1932	79.50 - 80.50	1479.	0.031250	46.
1931	80.50 - 81.50	49071.	0.031250	1533.
1930	81.50 - 82.50	86137.	0.031250	2692.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -100.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1929	82.50 - 83.50	0.	0.031250	0.
1928	83.50 - 84.50	365.	0.031250	11.
1927	84.50 - 85.50	15417.	0.031250	482.
1926	85.50 - 86.50	9128.	0.031250	285.
SUBTOTAL :		40331991.	0.031250	1260375.
NET SALVAGE: -100.0 %				1260375.
TOTAL :		40331991.	0.062500	2520750.

MONTHLY RATE: 0.005208

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38000. Services Steel

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 32.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	634209.	31.5	19982523.
2010	1.50	988328.	30.5	30170277.
2009	2.50	892632.	29.5	26377213.
2008	3.50	1104626.	28.6	31568241.
2007	4.50	1157285.	27.6	31955958.
2006	5.50	776959.	26.7	20709405.
2005	6.50	728921.	25.7	18735896.
2004	7.50	638080.	24.8	15799742.
2003	8.50	755175.	23.8	17994823.
2002	9.50	1262751.	22.9	28924690.
2001	10.50	43906.	22.0	965705.
2000	11.50	2190267.	21.1	46204353.
1999	12.50	1181120.	20.2	23868644.
1998	13.50	1213978.	19.3	23472659.
1997	14.50	963546.	18.5	17802411.
1996	15.50	569716.	17.6	10044766.
1995	16.50	649614.	16.8	10914556.
1994	17.50	1038467.	16.0	16602601.
1993	18.50	912136.	15.2	13855040.
1992	19.50	1033302.	14.4	14888456.
1991	20.50	1268541.	13.6	17309277.
1990	21.50	929845.	12.9	11994972.
1989	22.50	816294.	12.2	9937432.
1988	23.50	735316.	11.5	8432534.
1987	24.50	617629.	10.8	6660128.
1986	25.50	529186.	10.1	5356130.
1985	26.50	709728.	9.5	6730766.
1984	27.50	486158.	8.9	4312705.
1983	28.50	443434.	8.3	3674105.
1982	29.50	503360.	7.7	3890079.
1981	30.50	577940.	7.2	4161121.
1980	31.50	291667.	6.7	1954504.
1979	32.50	693718.	6.2	4323386.
1978	33.50	770155.	5.8	4461510.
1977	34.50	401855.	5.4	2163078.
1976	35.50	487819.	5.0	2439355.
1975	36.50	711046.	4.6	3302505.
1974	37.50	1099937.	4.3	4743311.
1973	38.50	1217127.	4.0	4870280.
1972	39.50	806015.	3.7	2989093.
1971	40.50	676414.	3.4	2320077.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38000. Services Steel

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 32.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	404766.	3.2	1279974.
1969	42.50	521746.	2.9	1514043.
1968	43.50	526627.	2.6	1393295.
1967	44.50	763211.	2.4	1824767.
1966	45.50	694914.	2.1	1484301.
1965	46.50	296212.	1.9	557343.
1964	47.50	301735.	1.6	491584.
1963	48.50	222783.	1.4	307641.
1962	49.50	180920.	1.1	205820.
1961	50.50	199487.	0.9	178842.
1960	51.50	472540.	0.6	305636.
1959	52.50	1127187.	0.2	253587.
1958	53.50	228201.	0.0	0.
1957	54.50	105427.	0.0	0.
1956	55.50	94522.	0.0	0.
1955	56.50	56590.	0.0	0.
1954	57.50	32962.	0.0	0.
1953	58.50	48816.	0.0	0.
1952	59.50	36682.	0.0	0.
1951	60.50	69493.	0.0	0.
1950	61.50	15537.	0.0	0.
1949	62.50	19829.	0.0	0.
1948	63.50	86544.	0.0	0.
1947	64.50	17766.	0.0	0.
1946	65.50	18158.	0.0	0.
1945	66.50	1458.	0.0	0.
1944	67.50	8322.	0.0	0.
1943	68.50	28010.	0.0	0.
1942	69.50	8297.	0.0	0.
1941	70.50	8619.	0.0	0.
1940	71.50	81.	0.0	0.
1939	72.50	2089.	0.0	0.
1938	73.50	40189.	0.0	0.
1937	74.50	6319.	0.0	0.
1936	75.50	6522.	0.0	0.
1935	76.50	0.	0.0	0.
1934	77.50	5145.	0.0	0.
1933	78.50	4486.	0.0	0.
1932	79.50	1479.	0.0	0.
1931	80.50	49071.	0.0	0.
1930	81.50	86137.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 32.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1929	82.50	0.	0.0	0.
1928	83.50	365.	0.0	0.
1927	84.50	15417.	0.0	0.
1926	85.50	9128.	0.0	0.
TOTAL:		40331991.	13.6	546661141.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 32.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0156	99.97544	0.02456	49.99386	0.031250	1.56231	1.53774	0.015381
1.50	0.0469	99.91488	0.06056	99.94516	0.031250	3.12329	4.60047	0.046044
2.50	0.0781	99.83725	0.07763	99.87606	0.031250	3.12113	7.64397	0.076564
3.50	0.1094	99.74013	0.09712	99.78869	0.031250	3.11840	10.66525	0.106930
4.50	0.1406	99.61719	0.12294	99.67866	0.031250	3.11496	13.65727	0.137098
5.50	0.1719	99.46469	0.15250	99.54094	0.031250	3.11066	16.61543	0.167048
6.50	0.2031	99.27806	0.18663	99.37138	0.031250	3.10536	19.53416	0.196762
7.50	0.2344	99.05100	0.22707	99.16453	0.031250	3.09889	22.40598	0.226207
8.50	0.2656	98.77700	0.27400	98.91400	0.031250	3.09106	25.22305	0.255353
9.50	0.2969	98.45031	0.32669	98.61365	0.031250	3.08168	27.97804	0.284184
10.50	0.3281	98.06194	0.38837	98.25612	0.031250	3.07051	30.66017	0.312661
11.50	0.3594	97.60569	0.45625	97.83381	0.031250	3.05731	33.26123	0.340771
12.50	0.3906	97.07225	0.53344	97.33897	0.031250	3.04184	35.76963	0.368485
13.50	0.4219	96.45150	0.62075	96.76187	0.031250	3.02381	38.17269	0.395771
14.50	0.4531	95.73681	0.71468	96.09416	0.031250	3.00294	40.46095	0.422627
15.50	0.4844	94.91706	0.81975	95.32694	0.031250	2.97897	42.62017	0.449025
16.50	0.5156	93.98212	0.93494	94.44959	0.031250	2.95155	44.63678	0.474950
17.50	0.5469	92.92188	1.06025	93.45200	0.031250	2.92038	46.49691	0.500387
18.50	0.5781	91.72519	1.19669	92.32353	0.031250	2.88511	48.18533	0.525323
19.50	0.6094	90.37806	1.34712	91.05162	0.031250	2.84536	49.68357	0.549730
20.50	0.6406	88.86756	1.51050	89.62281	0.031250	2.80071	50.97379	0.573593
21.50	0.6719	87.17681	1.69075	88.02219	0.031250	2.75069	52.03373	0.596876
22.50	0.7031	85.29300	1.88381	86.23491	0.031250	2.69484	52.84476	0.619567
23.50	0.7344	83.19725	2.09575	84.24512	0.031250	2.63266	53.38167	0.641628
24.50	0.7656	80.87112	2.32613	82.03419	0.031250	2.56357	53.61911	0.663019
25.50	0.7969	78.29706	2.57406	79.58409	0.031250	2.48700	53.53206	0.683705
26.50	0.8281	75.45700	2.84006	76.87703	0.031250	2.40241	53.09440	0.703638
27.50	0.8594	72.33750	3.11950	73.89725	0.031250	2.30929	52.28419	0.722781
28.50	0.8906	68.92400	3.41350	70.63075	0.031250	2.20721	51.07790	0.741076
29.50	0.9219	65.21612	3.70788	67.07006	0.031250	2.09594	49.46597	0.758493
30.50	0.9531	61.22100	3.99512	63.21856	0.031250	1.97558	47.44642	0.775002
31.50	0.9844	56.95975	4.26125	59.09037	0.031250	1.84657	45.03175	0.790589
32.50	1.0156	52.46669	4.49306	54.71322	0.031250	1.70979	42.24848	0.805244
33.50	1.0469	47.79106	4.67562	50.12887	0.031250	1.56653	39.13938	0.818969
34.50	1.0781	43.00013	4.79094	45.39559	0.031250	1.41861	35.76706	0.831790
35.50	1.1094	38.17050	4.82963	40.58531	0.031250	1.26829	32.20572	0.843733
36.50	1.1406	33.39200	4.77850	35.78125	0.031250	1.11816	28.54539	0.854857
37.50	1.1719	28.75844	4.63356	31.07522	0.031250	0.97110	24.88292	0.865239
38.50	1.2031	24.35594	4.40250	26.55719	0.031250	0.82991	21.31034	0.874954

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000. Services Steel

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 32.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.2344	20.26412	4.09181	22.31003	0.031250	0.69719	17.91571	0.884110
40.50	1.2656	16.54394	3.72019	18.40403	0.031250	0.57513	14.77065	0.892814
41.50	1.2969	13.23587	3.30806	14.88991	0.031250	0.46531	11.92790	0.901179
42.50	1.3281	10.35819	2.87769	11.79703	0.031250	0.36866	9.41887	0.909316
43.50	1.3594	7.90893	2.44925	9.13356	0.031250	0.28542	7.25504	0.917322
44.50	1.3906	5.87019	2.03875	6.88956	0.031250	0.21530	5.43159	0.925284
45.50	1.4219	4.21100	1.65919	5.04059	0.031250	0.15752	3.92992	0.933252
46.50	1.4531	2.89262	1.31838	3.55181	0.031250	0.11099	2.72254	0.941201
47.50	1.4844	1.87694	1.01569	2.38478	0.031250	0.07452	1.78138	0.949088
48.50	1.5156	1.12681	0.75013	1.50188	0.031250	0.04693	1.07819	0.956847
49.50	1.5469	0.60613	0.52069	0.86647	0.031250	0.02708	0.58458	0.964449
50.50	1.5781	0.27675	0.32938	0.44144	0.031250	0.01379	0.26900	0.971984
51.50	1.6094	0.09569	0.18106	0.18622	0.031250	0.00582	0.09375	0.979788
52.50	1.6406	0.01937	0.07631	0.05753	0.031250	0.00180	0.01924	0.992970
53.50	1.6719	0.00081	0.01856	0.01009	0.031250	0.00032	0.00099	1.000000
54.50	1.7031	0.00000	0.00081	0.00041	0.031250	0.00001	0.00000	1.000000
		3199.99873	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	634209.	0.	0.	0.	0.	0.	0.	0.	0
2010	988328.	0.	0.	0.	0.	0.	0.	0.	0
2009	892632.	0.	0.	0.	0.	0.	0.	0.	0
2008	1104626.	0.	0.	0.	0.	0.	0.	0.	0
2007	1157285.	0.	0.	0.	0.	0.	0.	0.	0
2006	776959.	0.	0.	0.	0.	2689.	0.	0.	0
2005	728921.	0.	0.	0.	1479.	1162.	2291.	0.	0
2004	638080.	0.	0.	0.	0.	2782.	1193.	8326.	0
2003	755175.	0.	472.	862.	3000.	420.	19037.	0.	537
2002	1262751.	0.	0.	1278.	4431.	11831.	21699.	5774.	12741
2001	43906.	0.	0.	0.	0.	0.	0.	0.	0
2000	2190267.	2817.	767.	5768.	3252.	37070.	35572.	12374.	32359
1999	1181120.	0.	3162.	6694.	10520.	20415.	30224.	20505.	12653
1998	1213978.	0.	2359.	5623.	15262.	10163.	30288.	3281.	34996
1997	963546.	0.	0.	3357.	4826.	15228.	11916.	9782.	22551
1996	569716.	0.	0.	9431.	644.	7925.	1767.	12950.	10520
1995	649614.	0.	0.	0.	3302.	3785.	7015.	41900.	5691
1994	1038467.	0.	3604.	776.	1129.	24990.	23418.	10654.	12734
1993	912136.	0.	0.	1385.	3214.	32932.	24568.	26432.	71395
1992	1033302.	0.	1342.	1679.	3838.	8871.	23766.	6293.	15576
1991	1268541.	351.	5551.	1570.	10958.	21736.	45031.	47122.	53989
1990	929845.	0.	560.	548.	6279.	14422.	5627.	13156.	11575
1989	816294.	0.	1263.	3457.	1220.	8891.	18626.	14682.	9926
1988	735316.	0.	1146.	5035.	9679.	5410.	8017.	22070.	20605
1987	617629.	0.	2254.	3190.	141.	14744.	10646.	14052.	19734
1986	529186.	0.	0.	2098.	1115.	8785.	28140.	17085.	11961
1985	709728.	0.	0.	450.	2687.	7644.	13726.	20078.	21478
1984	486158.	0.	1459.	1699.	3404.	21164.	11535.	13022.	29040
1983	443434.	0.	8229.	733.	3108.	12283.	9903.	8952.	6792
1982	503360.	0.	3243.	5227.	7913.	6710.	4125.	10202.	12567
1981	577940.	0.	0.	1365.	9571.	8526.	6919.	33462.	16221
1980	291667.	0.	1362.	2751.	5135.	3126.	6979.	8434.	14938
1979	693718.	0.	22024.	411.	2998.	10571.	11262.	9156.	11436
1978	770155.	0.	2248.	3018.	2757.	8133.	13128.	17937.	11927
1977	401855.	0.	0.	0.	3274.	11155.	11945.	9826.	12041
1976	487819.	0.	2893.	1018.	5411.	8124.	7471.	9630.	8361
1975	711046.	0.	1725.	6915.	4909.	6564.	3285.	8441.	8154
1974	1099937.	0.	581.	512.	3064.	7017.	8700.	15200.	12651
1973	1217127.	0.	4631.	11761.	14068.	23857.	19153.	21089.	16591
1972	806015.	643.	3423.	8560.	4879.	5400.	10710.	14495.	14373

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	676414.	900.	4584.	2218.	2905.	7595.	10789.	30655.	7974
1970	404766.	0.	208.	620.	7199.	3402.	2852.	4281.	3859
1969	521746.	0.	1022.	4861.	2664.	3600.	5044.	4694.	5333
1968	526627.	0.	5713.	927.	684.	5789.	5651.	6958.	5283
1967	763211.	0.	8115.	6059.	2563.	8459.	4056.	4855.	5058
1966	694914.	0.	1096.	9903.	2048.	6780.	6615.	10346.	17026
1965	296212.	0.	455.	1726.	2425.	3789.	6374.	7046.	20799
1964	301735.	0.	827.	888.	837.	3642.	2675.	3444.	4565
1963	222783.	0.	1064.	1881.	1829.	2596.	3125.	2668.	2056
1962	180920.	26061.	1010.	1004.	271.	2664.	941.	1509.	2010
1961	199487.	0.	2429.	253.	943.	2187.	1640.	1561.	2002
1960	472540.	721.	6234.	7259.	7415.	13781.	13425.	7256.	7604
1959	1127187.	15351.	1325.	5024.	6266.	9949.	14939.	21094.	15597
1958	228201.	1235.	48.	4199.	2571.	3496.	1377.	5260.	1554
1957	105427.	0.	266.	92.	110.	1464.	720.	1331.	2058
1956	94522.	0.	236.	998.	330.	1775.	967.	1441.	473
1955	56590.	0.	37.	0.	565.	510.	1166.	1036.	1034
1954	32962.	0.	0.	0.	379.	466.	778.	760.	718
1953	48816.	0.	621.	154.	267.	977.	497.	803.	536
1952	36682.	0.	0.	115.	1350.	1083.	2737.	2144.	2354
1951	69493.	0.	879.	2304.	1096.	1041.	1094.	760.	558
1950	15537.	0.	140.	426.	595.	1287.	1139.	1616.	1010
1949	19829.	0.	1.	0.	84.	1041.	993.	878.	450
1948	86544.	0.	473.	1882.	799.	3604.	2044.	2789.	2672
1947	17766.	10011.	395.	855.	666.	1493.	1249.	2332.	1221
1946	18158.	0.	0.	17.	49.	298.	194.	214.	424
1945	1458.	0.	0.	0.	0.	89.	0.	0.	0
1944	8322.	0.	0.	166.	0.	61.	39.	144.	46
1943	28010.	0.	0.	50.	0.	215.	214.	109.	1406
1942	8297.	0.	0.	0.	34.	27.	0.	54.	0
1941	8619.	0.	0.	0.	44.	60.	0.	36.	131
1940	81.	0.	0.	0.	0.	0.	0.	0.	0
1939	2089.	0.	0.	0.	0.	0.	52.	40.	29
1938	40189.	0.	0.	126.	11.	401.	501.	224.	542
1937	6319.	0.	0.	0.	0.	19.	81.	0.	0
1936	6522.	0.	0.	0.	0.	55.	0.	0.	0
1935	0.	0.	0.	0.	0.	0.	0.	0.	0
1934	5145.	0.	0.	0.	0.	0.	0.	0.	0
1933	4486.	0.	0.	0.	54.	0.	0.	0.	58
1932	1479.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1931	49071.	0.	234.	389.	22.	464.	44.	898.	68
1930	86137.	3837.	560.	1017.	2923.	4219.	2832.	2169.	2994
1929	0.	0.	0.	0.	0.	0.	0.	0.	0
1928	365.	0.	36.	56.	24.	0.	408.	899.	2108
1927	15417.	0.	0.	0.	0.	0.	0.	0.	0
1926	9128.	7837.	0.	0.	0.	0.	0.	32.	16
TOTAL	40331991.	69764.	112306.	152640.	207489.	492903.	584934.	618698.	677739

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	634209.	0.	0.	0.	0.	0.	0.	0.	0
2010	988328.	0.	0.	0.	0.	0.	0.	0.	0
2009	892632.	0.	0.	0.	0.	0.	0.	0.	0
2008	1104626.	0.	0.	0.	0.	0.	0.	0.	0
2007	1157285.	0.	0.	0.	0.	0.	0.	0.	0
2006	776959.	0.	0.	0.	0.	0.	0.	0.	0
2005	728921.	0.	0.	0.	0.	0.	0.	0.	0
2004	638080.	0.	0.	0.	0.	0.	0.	0.	0
2003	755175.	0.	0.	0.	0.	0.	0.	0.	0
2002	1262751.	0.	0.	0.	0.	0.	0.	0.	0
2001	43906.	0.	0.	0.	0.	0.	0.	0.	0
2000	2190267.	6774.	27344.	14588.	0.	0.	0.	0.	0
1999	1181120.	11405.	14827.	2870.	3276.	0.	0.	0.	0
1998	1213978.	13601.	11914.	0.	0.	2531.	0.	0.	0
1997	963546.	21316.	23619.	14764.	360.	0.	0.	0.	0
1996	569716.	7183.	43686.	4566.	197.	211.	2200.	639.	0
1995	649614.	21870.	18517.	24324.	20033.	2642.	463.	6483.	0
1994	1038467.	5043.	5704.	6130.	15295.	11098.	5047.	17977.	2959
1993	912136.	25289.	9944.	13133.	14709.	13116.	927.	11392.	10827
1992	1033302.	29409.	21053.	12098.	10868.	8438.	1424.	14719.	5646
1991	1268541.	25010.	13494.	22361.	31307.	9926.	577.	16747.	21822
1990	929845.	32255.	17992.	34396.	12288.	7361.	2806.	4525.	12214
1989	816294.	16037.	19425.	11594.	1073.	16435.	8392.	27989.	29448
1988	735316.	12275.	13157.	13328.	14494.	6940.	16226.	21780.	22634
1987	617629.	10276.	17486.	8843.	13992.	10777.	9626.	23285.	29506
1986	529186.	11450.	7774.	30397.	26081.	19669.	9869.	14367.	20495
1985	709728.	13936.	9249.	15919.	11049.	12714.	6619.	17224.	18363
1984	486158.	6318.	15272.	11787.	8584.	6287.	3012.	19500.	13287
1983	443434.	10297.	14073.	13336.	11901.	8067.	2998.	19672.	24987
1982	503360.	13273.	10467.	15037.	10857.	5174.	5362.	17128.	31271
1981	577940.	18550.	11742.	9644.	16343.	4595.	6694.	19060.	34173
1980	291667.	7061.	17876.	6642.	12391.	12331.	1699.	32552.	59165
1979	693718.	25900.	4548.	8733.	10559.	8388.	6123.	14134.	34262
1978	770155.	8289.	12786.	12865.	14088.	13785.	2596.	23492.	21163
1977	401855.	11460.	8468.	6520.	14749.	6817.	3203.	17502.	19114
1976	487819.	5993.	4739.	5677.	8229.	4995.	2646.	9222.	17733
1975	711046.	6236.	17844.	8999.	4869.	5418.	9964.	12971.	12116
1974	1099937.	8436.	9454.	14286.	9147.	9720.	5851.	15038.	24198
1973	1217127.	17365.	10427.	19257.	26382.	12365.	10448.	15388.	56702
1972	806015.	9863.	12243.	11164.	23735.	10223.	2853.	16002.	21481

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	676414.	9930.	9901.	9293.	7547.	3655.	4543.	17361.	39625
1970	404766.	6721.	5707.	5726.	4984.	3331.	2056.	8365.	33318
1969	521746.	7926.	3438.	5474.	4527.	2216.	2694.	10772.	9245
1968	526627.	6483.	933.	7518.	5702.	4825.	5661.	10377.	8359
1967	763211.	5541.	2651.	4162.	5581.	3094.	3693.	7945.	8092
1966	694914.	6758.	4528.	8533.	13486.	5427.	3975.	10674.	14933
1965	296212.	5192.	7962.	4331.	10608.	8833.	1671.	661.	17341
1964	301735.	3087.	1395.	5325.	7195.	3486.	1349.	4293.	7501
1963	222783.	1962.	1473.	2699.	5842.	1213.	1044.	4547.	6579
1962	180920.	1665.	911.	2174.	3569.	1073.	1436.	5177.	9805
1961	199487.	2441.	923.	1846.	2512.	1738.	1691.	3596.	15935
1960	472540.	4465.	5018.	6088.	8141.	3880.	2530.	9901.	24309
1959	1127187.	8938.	4224.	6200.	9361.	3334.	2314.	9014.	40167
1958	228201.	6634.	577.	5336.	2134.	791.	486.	1947.	6425
1957	105427.	1637.	708.	1238.	1941.	790.	897.	1338.	5540
1956	94522.	1237.	1261.	559.	1506.	168.	675.	1171.	2140
1955	56590.	520.	336.	705.	1667.	657.	314.	408.	2342
1954	32962.	433.	399.	546.	3033.	216.	619.	588.	3511
1953	48816.	675.	405.	436.	795.	575.	878.	611.	2466
1952	36682.	1069.	854.	823.	1356.	777.	631.	1022.	4663
1951	69493.	289.	1148.	1443.	1410.	1012.	1218.	532.	1772
1950	15537.	1286.	913.	1114.	1346.	642.	1253.	855.	4607
1949	19829.	690.	309.	280.	610.	414.	505.	766.	4350
1948	86544.	1461.	1234.	2298.	6523.	861.	1001.	3085.	3731
1947	17766.	409.	554.	580.	882.	319.	1148.	1603.	4545
1946	18158.	1150.	2603.	821.	984.	532.	397.	502.	3899
1945	1458.	52.	0.	0.	0.	193.	95.	150.	873
1944	8322.	18.	1176.	23.	196.	0.	70.	100.	586
1943	28010.	370.	1520.	746.	1008.	103.	0.	88.	227
1942	8297.	23.	305.	580.	96.	22.	32.	809.	3609
1941	8619.	33.	380.	1806.	587.	76.	68.	269.	2538
1940	81.	0.	0.	0.	0.	0.	134.	641.	1791
1939	2089.	23.	38.	138.	1440.	0.	96.	111.	1179
1938	40189.	986.	607.	2842.	4740.	219.	14.	178.	4517
1937	6319.	0.	0.	0.	0.	18.	130.	2499.	2550
1936	6522.	0.	0.	0.	0.	46.	0.	0.	163
1935	0.	0.	0.	0.	0.	3159.	0.	4.	0
1934	5145.	0.	3.	0.	25.	81.	0.	30.	25
1933	4486.	0.	0.	0.	51.	176.	0.	0.	0
1932	1479.	0.	0.	0.	0.	2.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1931	49071.	50.	646.	26.	813.	198.	0.	254.	35
1930	86137.	1470.	1199.	969.	1436.	675.	0.	1287.	99
1929	0.	0.	0.	0.	0.	0.	0.	185.	149
1928	365.	1220.	1288.	241.	911.	746.	49.	133.	660
1927	15417.	109.	173.	164.	501.	0.	34.	708.	3140
1926	9128.	731.	437.	343.	359.	0.	0.	918.	1351
TOTAL	40331991.	505854.	493261.	466684.	472261.	289596.	173026.	534263.	852258

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	634209.	0.	0.	0.	0.	0.	0.	0.	0
2010	988328.	0.	0.	0.	0.	0.	0.	0.	0
2009	892632.	0.	0.	0.	0.	0.	0.	0.	0
2008	1104626.	0.	0.	0.	0.	0.	0.	0.	0
2007	1157285.	0.	0.	0.	0.	0.	0.	0.	0
2006	776959.	0.	0.	0.	0.	0.	0.	0.	0
2005	728921.	0.	0.	0.	0.	0.	0.	0.	0
2004	638080.	0.	0.	0.	0.	0.	0.	0.	0
2003	755175.	0.	0.	0.	0.	0.	0.	0.	0
2002	1262751.	0.	0.	0.	0.	0.	0.	0.	0
2001	43906.	0.	0.	0.	0.	0.	0.	0.	0
2000	2190267.	0.	0.	0.	0.	0.	0.	0.	0
1999	1181120.	0.	0.	0.	0.	0.	0.	0.	0
1998	1213978.	0.	0.	0.	0.	0.	0.	0.	0
1997	963546.	0.	0.	0.	0.	0.	0.	0.	0
1996	569716.	0.	0.	0.	0.	0.	0.	0.	0
1995	649614.	0.	0.	0.	0.	0.	0.	0.	0
1994	1038467.	4594.	0.	0.	0.	0.	0.	0.	0
1993	912136.	751.	0.	0.	0.	0.	0.	0.	0
1992	1033302.	1659.	0.	0.	0.	0.	0.	0.	0
1991	1268541.	4986.	0.	3449.	0.	0.	0.	0.	0
1990	929845.	22297.	6016.	1823.	5395.	0.	0.	0.	0
1989	816294.	9462.	715.	192.	4486.	19176.	1838.	0.	0
1988	735316.	2149.	0.	0.	7065.	899.	29.	4128.	0
1987	617629.	11554.	10097.	1449.	4588.	4125.	10050.	710.	1390
1986	529186.	215884.	10308.	2608.	8694.	4792.	4721.	0.	1466
1985	709728.	11560.	3337.	428.	2490.	5473.	15313.	825.	0
1984	486158.	13687.	6186.	5772.	14172.	5205.	7390.	5661.	3850
1983	443434.	10289.	6064.	4085.	4245.	5240.	4977.	1404.	3747
1982	503360.	13466.	3218.	7260.	1225.	6440.	3036.	1938.	1793
1981	577940.	18820.	1502.	8450.	14681.	14554.	3402.	6616.	3046
1980	291667.	86394.	19782.	18575.	7947.	13839.	5488.	3736.	6563
1979	693718.	4147.	3217.	2603.	3523.	14682.	5104.	5051.	8283
1978	770155.	4783.	3274.	4365.	5677.	10963.	7911.	3202.	42059
1977	401855.	8661.	2744.	2596.	3189.	6529.	18265.	4546.	4254
1976	487819.	8691.	3660.	5351.	13463.	11265.	5641.	6225.	3122
1975	711046.	11464.	2487.	1782.	7866.	9125.	15930.	6142.	4756
1974	1099937.	36438.	9887.	10066.	12114.	10280.	14850.	11604.	4442
1973	1217127.	8144.	3758.	8945.	90675.	21452.	20341.	10480.	10720
1972	806015.	8135.	5130.	9740.	20011.	20189.	11898.	7436.	7068

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	676414.	36174.	17579.	20508.	35900.	22187.	12307.	4881.	9681
1970	404766.	41282.	12226.	20978.	6809.	19740.	23425.	12357.	22646
1969	521746.	7596.	5044.	5998.	4614.	16668.	13870.	6692.	3656
1968	526627.	7355.	4926.	2082.	2959.	8792.	15391.	6349.	6339
1967	763211.	6889.	2682.	4450.	6427.	10475.	20118.	3465.	2378
1966	694914.	6658.	4521.	3041.	7417.	18299.	20683.	2209.	2262
1965	296212.	10139.	8047.	10676.	11134.	18462.	21750.	7843.	8648
1964	301735.	6346.	2489.	3762.	3194.	14245.	12570.	2555.	10166
1963	222783.	5856.	2850.	5560.	6752.	7808.	6458.	6176.	2193
1962	180920.	5514.	3964.	5535.	3128.	9931.	5680.	8354.	1136
1961	199487.	13685.	6571.	3524.	9710.	11941.	14461.	9098.	3674
1960	472540.	36746.	16644.	31120.	19247.	22673.	19279.	62705.	16408
1959	1127187.	11453.	5247.	10887.	27853.	57559.	18783.	13664.	8359
1958	228201.	2057.	1057.	2356.	4187.	9929.	5537.	3308.	3687
1957	105427.	1753.	770.	1647.	3768.	6680.	1686.	1443.	2251
1956	94522.	1503.	264.	969.	3380.	6954.	1727.	6158.	5666
1955	56590.	2133.	64.	6294.	6289.	4063.	2790.	4705.	5458
1954	32962.	798.	859.	1482.	2105.	3492.	2749.	4346.	708
1953	48816.	2846.	468.	3202.	2960.	3507.	1788.	4527.	6086
1952	36682.	5907.	746.	3550.	21526.	4831.	4543.	2759.	7384
1951	69493.	1506.	461.	7625.	4307.	6531.	4101.	3311.	6787
1950	15537.	5821.	1184.	5932.	1647.	6324.	7394.	2034.	9763
1949	19829.	1657.	2103.	3619.	3589.	8679.	5673.	10323.	12275
1948	86544.	2476.	1987.	4979.	3985.	6549.	7129.	6472.	17139
1947	17766.	3359.	1007.	5830.	5551.	5887.	6779.	2905.	10539
1946	18158.	3754.	343.	6529.	4625.	6569.	6657.	4071.	11350
1945	1458.	1388.	382.	2057.	3065.	2664.	9500.	7699.	6169
1944	8322.	267.	31.	174.	629.	718.	2529.	1083.	263
1943	28010.	75.	0.	50.	539.	683.	1809.	236.	628
1942	8297.	10282.	2182.	764.	2401.	710.	3598.	89.	1612
1941	8619.	5596.	873.	2182.	3147.	2271.	7644.	3718.	5255
1940	81.	969.	519.	5044.	7797.	1934.	8628.	2584.	17622
1939	2089.	524.	1005.	16194.	16160.	18236.	6359.	3522.	29079
1938	40189.	650.	277.	4245.	5741.	4534.	5336.	3916.	9460
1937	6319.	1442.	2485.	4656.	1810.	387.	5763.	822.	6662
1936	6522.	222.	53.	3917.	2286.	454.	2697.	2269.	839
1935	0.	107.	130.	2244.	1151.	420.	6482.	606.	263
1934	5145.	323.	62.	1070.	1427.	234.	6324.	7059.	501
1933	4486.	4588.	0.	997.	561.	731.	4180.	2429.	308
1932	1479.	0.	363.	312.	929.	69.	3884.	3182.	285

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1931	49071.	169.	1364.	868.	822.	490.	2017.	592.	184
1930	86137.	96.	315.	1187.	1554.	2103.	1746.	1294.	247
1929	0.	64.	24.	12.	268.	43.	2346.	238.	354
1928	365.	264.	1088.	740.	1798.	553.	7015.	1188.	539
1927	15417.	1040.	360.	487.	1174.	44885.	7358.	1036.	878
1926	9128.	366.	390.	1784.	6646.	747.	15211.	18528.	2021
TOTAL	40331991.	777710.	217388.	330658.	504474.	585869.	529938.	344504.	386367

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS				
		1987	1986	1985	1984	1983
2011	634209.	0.	0.	0.	0.	0.
2010	988328.	0.	0.	0.	0.	0.
2009	892632.	0.	0.	0.	0.	0.
2008	1104626.	0.	0.	0.	0.	0.
2007	1157285.	0.	0.	0.	0.	0.
2006	776959.	0.	0.	0.	0.	0.
2005	728921.	0.	0.	0.	0.	0.
2004	638080.	0.	0.	0.	0.	0.
2003	755175.	0.	0.	0.	0.	0.
2002	1262751.	0.	0.	0.	0.	0.
2001	43906.	0.	0.	0.	0.	0.
2000	2190267.	0.	0.	0.	0.	0.
1999	1181120.	0.	0.	0.	0.	0.
1998	1213978.	0.	0.	0.	0.	0.
1997	963546.	0.	0.	0.	0.	0.
1996	569716.	0.	0.	0.	0.	0.
1995	649614.	0.	0.	0.	0.	0.
1994	1038467.	0.	0.	0.	0.	0.
1993	912136.	0.	0.	0.	0.	0.
1992	1033302.	0.	0.	0.	0.	0.
1991	1268541.	0.	0.	0.	0.	0.
1990	929845.	0.	0.	0.	0.	0.
1989	816294.	0.	0.	0.	0.	0.
1988	735316.	0.	0.	0.	0.	0.
1987	617629.	1062.	0.	0.	0.	0.
1986	529186.	3780.	918.	0.	0.	0.
1985	709728.	4277.	4275.	340.	0.	0.
1984	486158.	2667.	14786.	3588.	0.	0.
1983	443434.	2515.	4063.	5296.	6246.	544.
1982	503360.	886.	2877.	4783.	5524.	1820.
1981	577940.	19881.	2833.	11960.	9953.	3534.
1980	291667.	6268.	6271.	31798.	3820.	3884.
1979	693718.	6497.	7329.	10086.	1223.	12576.
1978	770155.	3673.	1029.	4458.	4433.	6951.
1977	401855.	11314.	6054.	7428.	4782.	3188.
1976	487819.	2632.	3654.	2517.	4477.	6184.
1975	711046.	3412.	1018.	6047.	4232.	4529.
1974	1099937.	14121.	5052.	10041.	5445.	4138.
1973	1217127.	5815.	9956.	20960.	12224.	18916.
1972	806015.	12380.	2711.	7365.	3911.	5092.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS				
		1987	1986	1985	1984	1983
1971	676414.	3049.	4579.	3789.	3380.	4130.
1970	404766.	25841.	15768.	41267.	14528.	8353.
1969	521746.	2569.	3471.	6768.	3466.	2904.
1968	526627.	4452.	2404.	7275.	3293.	10423.
1967	763211.	16783.	1672.	2354.	2141.	3845.
1966	694914.	5029.	3863.	6069.	3279.	1818.
1965	296212.	3515.	3917.	3439.	944.	2687.
1964	301735.	1980.	4098.	2957.	2340.	948.
1963	222783.	2435.	4498.	2136.	666.	1499.
1962	180920.	2136.	1874.	1432.	652.	2243.
1961	199487.	2148.	1068.	2803.	521.	1768.
1960	472540.	17175.	10701.	23121.	26481.	4536.
1959	1127187.	49062.	43899.	28275.	979.	29550.
1958	228201.	1350.	1553.	2315.	3552.	981.
1957	105427.	1442.	355.	1407.	686.	279.
1956	94522.	2409.	739.	332.	533.	969.
1955	56590.	1085.	451.	1426.	197.	1071.
1954	32962.	811.	128.	1404.	657.	1095.
1953	48816.	1846.	407.	1127.	286.	1266.
1952	36682.	1894.	399.	1044.	290.	1196.
1951	69493.	3039.	454.	888.	219.	585.
1950	15537.	4289.	948.	6335.	2121.	2660.
1949	19829.	5390.	540.	5194.	189.	1889.
1948	86544.	2276.	727.	1925.	902.	2069.
1947	17766.	3565.	1297.	1589.	808.	4016.
1946	18158.	4363.	678.	941.	1087.	1453.
1945	1458.	15553.	4728.	499.	261.	707.
1944	8322.	429.	719.	924.	172.	865.
1943	28010.	183.	753.	360.	57.	72.
1942	8297.	295.	79.	51.	87.	283.
1941	8619.	1140.	520.	194.	305.	1092.
1940	81.	10528.	3766.	3373.	376.	1813.
1939	2089.	2828.	33.	1213.	443.	977.
1938	40189.	1422.	3432.	389.	546.	891.
1937	6319.	922.	196.	252.	201.	1286.
1936	6522.	461.	100.	691.	222.	1181.
1935	0.	17883.	87.	725.	35.	3995.
1934	5145.	1263.	878.	502.	226.	230.
1933	4486.	119.	200.	90.	563.	113.
1932	1479.	664.	49.	64.	150.	320.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1931	49071.	317.	115.	221.	198.	68.
1930	86137.	638.	170.	252.	460.	1167.
1929	0.	410.	384.	522.	159.	289.
1928	365.	3013.	263.	466.	127.	177.
1927	15417.	2298.	137.	6332.	541.	485.
1926	9128.	2544.	523.	7447.	847.	1118.
TOTAL	40331991.	334023.	200446.	308846.	146443.	182718.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	29138698.	2864.	0.00009829	0.99990171	1.00000000
0.5	29217807.	66536.	0.00227724	0.99772276	0.99990171
1.5	29056980.	121345.	0.00417611	0.99582389	0.99762469
2.5	28741477.	124778.	0.00434139	0.99565861	0.99345851
3.5	28470617.	183013.	0.00642814	0.99357186	0.98914552
4.5	28171464.	251047.	0.00891139	0.99108861	0.98278715
5.5	27764937.	324012.	0.01166983	0.98833017	0.97402915
6.5	27378847.	245934.	0.00898263	0.99101737	0.96266240
7.5	27403079.	271064.	0.00989174	0.99010826	0.95401516
8.5	27769110.	454152.	0.01635458	0.98364542	0.94457830
9.5	27791204.	387368.	0.01393851	0.98606149	0.92913012
10.5	28457058.	340183.	0.01195426	0.98804574	0.91617943
11.5	26950641.	293448.	0.01088835	0.98911165	0.90522718
12.5	26238688.	392798.	0.01497018	0.98502982	0.89537075
13.5	25310484.	346694.	0.01369764	0.98630236	0.88196689
14.5	24689774.	431566.	0.01747954	0.98252046	0.86988602
15.5	24615306.	303410.	0.01232607	0.98767393	0.85468081
16.5	24564472.	319586.	0.01301009	0.98698991	0.84414595
17.5	23713045.	247491.	0.01043691	0.98956309	0.83316354
18.5	22973312.	349282.	0.01520382	0.98479618	0.82446788
19.5	21908976.	331941.	0.01515091	0.98484909	0.81193282
20.5	20602273.	272291.	0.01321655	0.98678345	0.79963130
21.5	19722293.	242574.	0.01229948	0.98770052	0.78906293
22.5	19570828.	294491.	0.01504745	0.98495255	0.77935787
23.5	20146875.	339902.	0.01687120	0.98312880	0.76763052
24.5	19503484.	269321.	0.01380887	0.98619113	0.75467967
25.5	18854701.	254623.	0.01350448	0.98649552	0.74425840
26.5	18031412.	286261.	0.01587568	0.98412432	0.73420757
27.5	17362906.	253053.	0.01457435	0.98542565	0.72255153
28.5	16732461.	229683.	0.01372679	0.98627321	0.71202081
29.5	16089246.	194305.	0.01207670	0.98792330	0.70224705
30.5	15430730.	215268.	0.01395060	0.98604940	0.69376622
31.5	15049658.	206440.	0.01371726	0.98628274	0.68408777
32.5	14239718.	195224.	0.01370982	0.98629018	0.67470396
33.5	13366659.	199360.	0.01491472	0.98508528	0.66545389
34.5	12945060.	175259.	0.01353868	0.98646132	0.65552883
35.5	12381142.	140153.	0.01131988	0.98868012	0.64665383
36.5	11612605.	149203.	0.01284837	0.98715163	0.63933379
37.5	10421047.	117574.	0.01128236	0.98871764	0.63111940
38.5	9106096.	107318.	0.01178529	0.98821471	0.62399888

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	8232274.	127589.	0.01549863	0.98450137	0.61664487
40.5	7464592.	94890.	0.01271201	0.98728799	0.60708772
41.5	7013520.	106877.	0.01523871	0.98476129	0.59937041
42.5	6452497.	93031.	0.01441783	0.98558217	0.59023678
43.5	5934647.	67779.	0.01142090	0.98857910	0.58172685
44.5	5200593.	85541.	0.01644832	0.98355168	0.57508300
45.5	4458638.	83311.	0.01868530	0.98131470	0.56562386
46.5	4101293.	82443.	0.02010171	0.97989829	0.55505500
47.5	3754406.	74019.	0.01971524	0.98028476	0.54389745
48.5	3483012.	107994.	0.03100592	0.96899408	0.53317438
49.5	3213802.	59086.	0.01838508	0.98161492	0.51664282
50.5	2966981.	42899.	0.01445881	0.98554119	0.50714430
51.5	2512179.	86261.	0.03433712	0.96566288	0.49981160
52.5	1423783.	60538.	0.04251912	0.95748088	0.48264951
53.5	1140491.	46926.	0.04114544	0.95885456	0.46212768
54.5	1014513.	34429.	0.03393648	0.96606352	0.44311323
55.5	972819.	31459.	0.03233798	0.96766202	0.42807553
56.5	964094.	31343.	0.03251032	0.96748968	0.41423243
57.5	899789.	34120.	0.03792000	0.96208000	0.40076560
58.5	816853.	28299.	0.03464393	0.96535607	0.38556857
59.5	751872.	15758.	0.02095835	0.97904165	0.37221096
60.5	666621.	17105.	0.02565926	0.97434074	0.36441003
61.5	633979.	24060.	0.03795078	0.96204922	0.35505954
62.5	590090.	33086.	0.05606941	0.94393059	0.34158475
63.5	470460.	76441.	0.16248140	0.83751860	0.32243229
64.5	376253.	4105.	0.01091021	0.98908979	0.27004304
65.5	353990.	9565.	0.02702054	0.97297946	0.26709682
66.5	342967.	4217.	0.01229564	0.98770436	0.25987972
67.5	330428.	2977.	0.00900953	0.99099047	0.25668433
68.5	299441.	5609.	0.01873157	0.98126843	0.25437172
69.5	285535.	3600.	0.01260791	0.98739209	0.24960694
70.5	273316.	3552.	0.01299595	0.98700405	0.24645992
71.5	269683.	2160.	0.00800940	0.99199060	0.24325694
72.5	265434.	2280.	0.00858971	0.99141029	0.24130860
73.5	222965.	5703.	0.02557801	0.97442199	0.23923583
74.5	210943.	4003.	0.01897669	0.98102331	0.23311665
75.5	200419.	5950.	0.02968780	0.97031220	0.22869287
76.5	194468.	5871.	0.03019006	0.96980994	0.22190348
77.5	183452.	3736.	0.02036500	0.97963500	0.21520420
78.5	175230.	1283.	0.00732181	0.99267819	0.21082157

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38000 Services Steel

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
79.5	172468.	584.	0.00338614	0.99661386	0.20927797
80.5	122813.	3893.	0.03169860	0.96830140	0.20856933
81.5	32784.	36.	0.00109810	0.99890190	0.20195798
82.5	32747.	0.	0.00000000	1.00000000	0.20173621
83.5	32382.	0.	0.00000000	1.00000000	0.20173621
84.5	16965.	7837.	0.46195108	0.53804892	0.20173621
TOTAL		11553060.			48.71107392

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38000 Services Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 55.336110 FIT INDEX 0.000576 VARIANCE 0.457566

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	29138698.	2864.	114907.	0.00009829	0.00394344	1.00000000	1.00000000	0.00	0.00000000
0.5	29217807.	66536.	234101.	0.00227724	0.00801226	0.99990171	0.99605656	0.90	0.00509484
1.5	29056980.	121345.	240098.	0.00417611	0.00826301	0.99762469	0.98807590	2.71	0.01520337
2.5	28741477.	124778.	244698.	0.00434139	0.00851376	0.99345851	0.97991142	4.52	0.02514484
3.5	28470617.	183013.	249531.	0.00642814	0.00876452	0.98914552	0.97156869	6.32	0.03492287
4.5	28171464.	251047.	253973.	0.00891139	0.00901527	0.98278715	0.96305336	8.13	0.04454093
5.5	27764937.	324012.	257271.	0.01166983	0.00926602	0.97402915	0.95437118	9.94	0.05400246
6.5	27378847.	245934.	260558.	0.00898263	0.00951677	0.96266240	0.94552795	11.75	0.06331076
7.5	27403079.	271064.	267660.	0.00989174	0.00976753	0.95401516	0.93652958	13.55	0.07246901
8.5	27769110.	454152.	278199.	0.01635458	0.01001828	0.94457830	0.92738200	15.36	0.08148051
9.5	27791204.	387368.	285389.	0.01393851	0.01026903	0.92913012	0.91809122	17.17	0.09034825
10.5	28457058.	340183.	299362.	0.01195426	0.01051979	0.91617943	0.90866331	18.97	0.09907521
11.5	26950641.	293448.	290273.	0.01088835	0.01077054	0.90522718	0.89910437	20.78	0.10766438
12.5	26238688.	392798.	289184.	0.01497018	0.01102129	0.89537075	0.88942053	22.59	0.11611858
13.5	25310484.	346694.	285301.	0.01369764	0.01127205	0.88196689	0.87961796	24.40	0.12444056
14.5	24689774.	431566.	284495.	0.01747954	0.01152280	0.86988602	0.86970287	26.20	0.13263313
15.5	24615306.	303410.	289810.	0.01232607	0.01177355	0.85468081	0.85968145	28.01	0.14069881
16.5	24564472.	319586.	295371.	0.01301009	0.01202431	0.84414595	0.84955995	29.82	0.14864025
17.5	23713045.	247491.	291079.	0.01043691	0.01227506	0.83316354	0.83934458	31.62	0.15646000
18.5	22973312.	349282.	287759.	0.01520382	0.01252581	0.82446788	0.82904157	33.43	0.16416048
19.5	21908976.	331941.	279922.	0.01515091	0.01277657	0.81193282	0.81865715	35.24	0.17174408
20.5	20602273.	272291.	268392.	0.01321655	0.01302732	0.79963130	0.80819752	37.05	0.17921318
21.5	19722293.	242574.	261874.	0.01229948	0.01327807	0.78906293	0.79766887	38.85	0.18657002
22.5	19570828.	294491.	264770.	0.01504745	0.01352883	0.77935787	0.78707737	40.66	0.19381686
23.5	20146875.	339902.	277615.	0.01687120	0.01377958	0.76763052	0.77642913	42.47	0.20095591
24.5	19503484.	269321.	273640.	0.01380887	0.01403033	0.75467967	0.76573027	44.27	0.20798919
25.5	18854701.	254623.	269266.	0.01350448	0.01428109	0.74425840	0.75498681	46.08	0.21491888
26.5	18031412.	286261.	262030.	0.01587568	0.01453184	0.73420757	0.74420478	47.89	0.22174690
27.5	17362906.	253053.	256669.	0.01457435	0.01478259	0.72255153	0.73339012	49.70	0.22847533
28.5	16732461.	229683.	251545.	0.01372679	0.01503335	0.71202081	0.72254871	51.50	0.23510604
29.5	16089246.	194305.	245910.	0.01207670	0.01528410	0.70224705	0.71168638	53.31	0.24164093
30.5	15430730.	215268.	239714.	0.01395060	0.01553485	0.69376622	0.70080890	55.12	0.24808184
31.5	15049658.	206440.	237568.	0.01371726	0.01578561	0.68408777	0.68992193	56.92	0.25443056

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38000 Services Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 55.336110 FIT INDEX 0.000576 VARIANCE 0.457566

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 84.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	14239718.	195224.	228353.	0.01370982	0.01603636	0.67470396	0.67903110	58.73	0.26068884
33.5	13366659.	199360.	217704.	0.01491472	0.01628711	0.66545389	0.66814191	60.54	0.26685841
34.5	12945060.	175259.	214084.	0.01353868	0.01653787	0.65552883	0.65725981	62.35	0.27294095
35.5	12381142.	140153.	207862.	0.01131988	0.01678862	0.64665383	0.64639013	64.15	0.27893805
36.5	11612605.	149203.	197872.	0.01284837	0.01703937	0.63933379	0.63553813	65.96	0.28485140
37.5	10421047.	117574.	180181.	0.01128236	0.01729013	0.63111940	0.62470896	67.77	0.29068250
38.5	9106096.	107318.	159729.	0.01178529	0.01754088	0.62399888	0.61390767	69.57	0.29643286
39.5	8232274.	127589.	146466.	0.01549863	0.01779163	0.61664487	0.60313919	71.38	0.30210402
40.5	7464592.	94890.	134679.	0.01271201	0.01804239	0.60708772	0.59240835	73.19	0.30769747
41.5	7013520.	106877.	128299.	0.01523871	0.01829314	0.59937041	0.58171989	75.00	0.31321461
42.5	6452497.	93031.	119654.	0.01441783	0.01854389	0.59023678	0.57107841	76.80	0.31865681
43.5	5934647.	67779.	111540.	0.01142090	0.01879465	0.58172685	0.56048839	78.61	0.32402546
44.5	5200593.	85541.	99047.	0.01644832	0.01904540	0.57508300	0.54995421	80.42	0.32932184
45.5	4458638.	83311.	86035.	0.01868530	0.01929615	0.56562386	0.53948012	82.22	0.33454730
46.5	4101293.	82443.	80168.	0.02010171	0.01954691	0.55505500	0.52907023	84.03	0.33970315
47.5	3754406.	74019.	74328.	0.01971524	0.01979766	0.54389745	0.51872854	85.84	0.34479058
48.5	3483012.	107994.	69829.	0.03100592	0.02004841	0.53317438	0.50845893	87.65	0.34981085
49.5	3213802.	59086.	65237.	0.01838508	0.02029917	0.51664282	0.49826513	89.45	0.35476515
50.5	2966981.	42899.	60971.	0.01445881	0.02054992	0.50714430	0.48815077	91.26	0.35965461
51.5	2512179.	86261.	52255.	0.03433712	0.02080067	0.49981160	0.47811931	93.07	0.36448047
52.5	1423783.	60538.	29973.	0.04251912	0.02105143	0.48264951	0.46817411	94.87	0.36924373
53.5	1140491.	46926.	24295.	0.04114544	0.02130218	0.46212768	0.45831837	96.68	0.37394556
54.5	1014513.	34429.	21866.	0.03393648	0.02155293	0.44311323	0.44855519	98.49	0.37858703
55.5	972819.	31459.	21211.	0.03233798	0.02180369	0.42807553	0.43888751	100.30	0.38316914
56.5	964094.	31343.	21263.	0.03251032	0.02205444	0.41423243	0.42931815	102.10	0.38769297
57.5	899789.	34120.	20070.	0.03792000	0.02230519	0.40076560	0.41984978	103.91	0.39215951
58.5	816853.	28299.	18425.	0.03464393	0.02255595	0.38556857	0.41048495	105.72	0.39656970
59.5	751872.	15758.	17148.	0.02095835	0.02280670	0.37221096	0.40122607	107.52	0.40092458
60.5	666621.	17105.	15371.	0.02565926	0.02305745	0.36441003	0.39207543	109.33	0.40522503
61.5	633979.	24060.	14777.	0.03795078	0.02330820	0.35505954	0.38303517	111.14	0.40947201
62.5	590090.	33086.	13902.	0.05606941	0.02355896	0.34158475	0.37410731	112.95	0.41366639
63.5	470460.	76441.	11202.	0.16248140	0.02380971	0.32243229	0.36529373	114.75	0.41780909
64.5	376253.	4105.	9053.	0.01091021	0.02406046	0.27004304	0.35659619	116.56	0.42190095

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38000 Services Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 55.336110 FIT INDEX 0.000576 VARIANCE 0.457566

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
65.5	353990.	9565.	8606.	0.02702054	0.02431122	0.26709682	0.34801632	118.37	0.42594284
66.5	342967.	4217.	8424.	0.01229564	0.02456197	0.25987972	0.33955562	120.17	0.42993562
67.5	330428.	2977.	8199.	0.00900953	0.02481272	0.25668433	0.33121546	121.98	0.43388005
68.5	299441.	5609.	7505.	0.01873157	0.02506348	0.25437172	0.32299711	123.79	0.43777697
69.5	285535.	3600.	7228.	0.01260791	0.02531423	0.24960694	0.31490168	125.60	0.44162712
70.5	273316.	3552.	6987.	0.01299595	0.02556498	0.24645992	0.30693018	127.40	0.44543128
71.5	269683.	2160.	6962.	0.00800940	0.02581574	0.24325694	0.29908352	129.21	0.44919024
72.5	265434.	2280.	6919.	0.00858971	0.02606649	0.24130860	0.29136246	131.02	0.45290471
73.5	222965.	5703.	5868.	0.02557801	0.02631724	0.23923583	0.28376766	132.82	0.45657541
74.5	210943.	4003.	5604.	0.01897669	0.02656800	0.23311665	0.27629968	134.63	0.46020303
75.5	200419.	5950.	5375.	0.02968780	0.02681875	0.22869287	0.26895895	136.44	0.46378827
76.5	194468.	5871.	5264.	0.03019006	0.02706950	0.22190348	0.26174580	138.25	0.46733181
77.5	183452.	3736.	5012.	0.02036500	0.02732026	0.21520420	0.25466047	140.05	0.47083436
78.5	175230.	1283.	4831.	0.00732181	0.02757101	0.21082157	0.24770308	141.86	0.47429654
79.5	172468.	584.	4798.	0.00338614	0.02782176	0.20927797	0.24087366	143.67	0.47771898
80.5	122813.	3893.	3448.	0.03169860	0.02807252	0.20856933	0.23417213	145.47	0.48110234
81.5	32784.	36.	929.	0.00109810	0.02832327	0.20195798	0.22759833	147.28	0.48444722
82.5	32747.	0.	936.	0.00000000	0.02857402	0.20173621	0.22115200	149.09	0.48775420
83.5	32382.	0.	933.	0.00000000	0.02882478	0.20173621	0.21483280	150.90	0.49102389
84.5	16965.	7837.	493.	0.46195108	0.02907553	0.20173621	0.20864029	152.70	0.49425688
TOTAL (EXCEPT AGE 0)		11550200.	11550200.						

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38000 Services Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 55.336110 FIT INDEX 0.000576 VARIANCE 0.457566

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
85.5					0.02932628		0.20257396	154.51	0.49745373
86.5					0.02957704		0.19663322	156.32	0.50061501
87.5					0.02982779		0.19081739	158.12	0.50374130
88.5					0.03007854		0.18512573	159.93	0.50683308
89.5					0.03032930		0.17955742	161.74	0.50989093
90.5					0.03058005		0.17411157	163.55	0.51291532
91.5					0.03083080		0.16878723	165.35	0.51590678
92.5					0.03108156		0.16358338	167.16	0.51886581
93.5					0.03133231		0.15849896	168.97	0.52179291
94.5					0.03158306		0.15353282	170.77	0.52468856
95.5					0.03183382		0.14868378	172.58	0.52755325
96.5					0.03208457		0.14395061	174.39	0.53038743
97.5					0.03233532		0.13933202	176.20	0.53319157
98.5					0.03258608		0.13482667	178.00	0.53596610
99.5					0.03283683		0.13043320	179.81	0.53871146
100.5					0.03308758		0.12615019	181.62	0.54142808
101.5					0.03333834		0.12197618	183.42	0.54411640
102.5					0.03358909		0.11790970	185.23	0.54677684
103.5					0.03383984		0.11394922	187.04	0.54940980
104.5					0.03409060		0.11009320	188.85	0.55201571
105.5					0.03434135		0.10634005	190.65	0.55459493
106.5					0.03459210		0.10268819	192.46	0.55714789
107.5					0.03484286		0.09913599	194.27	0.55967492
108.5					0.03509361		0.09568181	196.07	0.56217643
109.5					0.03534436		0.09232399	197.88	0.56465284
110.5					0.03559512		0.08906086	199.69	0.56710445
111.5					0.03584587		0.08589073	201.50	0.56953162
112.5					0.03609662		0.08281190	203.30	0.57193475
113.5					0.03634738		0.07982267	205.11	0.57431417
114.5					0.03659813		0.07692132	206.92	0.57667020
115.5					0.03684888		0.07410615	208.72	0.57900320
116.5					0.03709964		0.07137542	210.53	0.58131349
117.5					0.03735039		0.06872742	212.34	0.58360140

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38000 Services Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 55.336110 FIT INDEX 0.000576 VARIANCE 0.457566

FITTED RANGE AGE 0.5 TO 84.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
118.5					0.03760114		0.06616042	214.15	0.58586727
119.5					0.03785189		0.06367271	215.95	0.58811143
120.5					0.03810265		0.06126258	217.76	0.59033415
121.5					0.03835340		0.05892831	219.57	0.59253579
122.5					0.03860415		0.05666821	221.37	0.59471665
123.5					0.03885491		0.05448058	223.18	0.59687698
124.5					0.03910566		0.05236375	224.99	0.59901712
125.5					0.03935641		0.05031603	226.80	0.60113737
126.5					0.03960717		0.04833577	228.60	0.60323799
127.5					0.03985792		0.04642133	230.41	0.60531932
128.5					0.04010867		0.04457107	232.22	0.60738162
129.5					0.04035943		0.04278338	234.02	0.60942514
130.5					0.04061018		0.04105667	235.83	0.61145020
131.5					0.04086093		0.03938935	237.64	0.61345708
132.5					0.04111169		0.03777987	239.45	0.61544603
133.5					0.04136244		0.03622667	241.25	0.61741732
134.5					0.04161319		0.03472825	243.06	0.61937124
135.5					0.04186395		0.03328309	244.87	0.62130803
136.5					0.04211470		0.03188973	246.67	0.62322799
137.5					0.04236545		0.03054671	248.48	0.62513136
138.5					0.04261621		0.02925258	250.29	0.62701842
139.5					0.04286696		0.02800595	252.10	0.62888942
140.5					0.04311771		0.02680542	253.90	0.63074462
141.5					0.04336847		0.02564963	255.71	0.63258427
142.5					0.04361922		0.02453724	257.52	0.63440863
143.5					0.04386997		0.02346695	259.32	0.63621800
144.5					0.04412073		0.02243745	261.13	0.63801260
145.5					0.04437148		0.02144750	262.94	0.63979272
146.5					0.04462223		0.02049584	264.75	0.64155861
147.5					0.04487299		0.01958127	266.55	0.64331051
148.5					0.04512374		0.01870260	268.36	0.64504870
149.5					0.04537449		0.01785867	270.17	0.64677346
150.5					0.04562525		0.01704834	271.97	0.64848502

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38000 Services Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 55.336110 FIT INDEX 0.000576 VARIANCE 0.457566

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 84.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
151.5					0.04587600		0.01627051	273.78	0.65018368
152.5					0.04612675		0.01552408	275.59	0.65186974
153.5					0.04637751		0.01480800	277.40	0.65354343
154.5					0.04662826		0.01412125	279.20	0.65520502
155.5					0.04687901		0.01346280	281.01	0.65685481
156.5					0.04712977		0.01283167	282.82	0.65849312
157.5					0.04738052		0.01222692	284.62	0.66012020
158.5					0.04763127		0.01164760	286.43	0.66173636
159.5					0.04788203		0.01109281	288.24	0.66334190
160.5					0.04813278		0.01056167	290.05	0.66493715
161.5					0.04838353		0.01005330	291.85	0.66652241
162.5					0.04863429		0.00956689	293.66	0.66809803
163.5					0.04888504		0.00910161	295.47	0.66966433
164.5					0.04913579		0.00865668	297.27	0.67122166
165.5					0.04938655		0.00823133	299.08	0.67277039
166.5					0.04963730		0.00782481	300.89	0.67431088
167.5					0.04988805		0.00743641	302.70	0.67584350
168.5					0.05013881		0.00706542	304.50	0.67736867
169.5					0.05038956		0.00671117	306.31	0.67888679
170.5					0.05064031		0.00637299	308.12	0.68039829
171.5					0.05089107		0.00605026	309.92	0.68190361
172.5					0.05114182		0.00574236	311.73	0.68340322
173.5					0.05139257		0.00544868	313.54	0.68489758
174.5					0.05164333		0.00516866	315.35	0.68638723
175.5					0.05189408		0.00490174	317.15	0.68787268
176.5					0.05214483		0.00464736	318.96	0.68935451
177.5					0.05239558		0.00440503	320.77	0.69083329
178.5					0.05264634		0.00417422	322.57	0.69230963
179.5					0.05289709		0.00395447	324.38	0.69378417
180.5					0.05314784		0.00374529	326.19	0.69525762
181.5					0.05339860		0.00354623	328.00	0.69673067
182.5					0.05364935		0.00335687	329.80	0.69820409
183.5					0.05390010		0.00317678	331.61	0.69967867

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38000 Services Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 55.336110 FIT INDEX 0.000576 VARIANCE 0.457566

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
					FITTED RANGE AGE 0.5 TO 84.5				
184.5					0.05415086		0.00300555	333.42	0.70115527
185.5					0.05440161		0.00284279	335.22	0.70263477
186.5					0.05465236		0.00268814	337.03	0.70411816
187.5					0.05490312		0.00254123	338.84	0.70560640
188.5					0.05515387		0.00240171	340.65	0.70710061
189.5					0.05540462		0.00226924	342.45	0.70860190
190.5					0.05565538		0.00214352	344.26	0.71011149
191.5					0.05590613		0.00202422	346.07	0.71163069
192.5					0.05615688		0.00191105	347.87	0.71316086
193.5					0.05640764		0.00180373	349.68	0.71470347
194.5					0.05665839		0.00170199	351.49	0.71626007
195.5					0.05690914		0.00160556	353.30	0.71783235
196.5					0.05715990		0.00151419	355.10	0.71942207
197.5					0.05741065		0.00142764	356.91	0.72103115
198.5					0.05766140		0.00134567	358.72	0.72266162
199.5					0.05791216		0.00126808	360.52	0.72431563
200.5					0.05816291		0.00119464	362.33	0.72599556
201.5					0.05841366		0.00112516	364.14	0.72770386
202.5					0.05866442		0.00105943	365.95	0.72944321
203.5					0.05891517		0.00099728	367.75	0.73121650
204.5					0.05916592		0.00093853	369.56	0.73302677
205.5					0.05941668		0.00088300	371.37	0.73487732
206.5					0.05966743		0.00083053	373.17	0.73677168
207.5					0.05991818		0.00078098	374.98	0.73871365
208.5					0.06016894		0.00073418	376.79	0.74070729
209.5					0.06041969		0.00069001	378.60	0.74275696
210.5					0.06067044		0.00064832	380.40	0.74486737
211.5					0.06092120		0.00060899	382.21	0.74704357
212.5					0.06117195		0.00057188	384.02	0.74929101
213.5					0.06142270		0.00053690	385.82	0.75161549
214.5					0.06167346		0.00050392	387.63	0.75402332
215.5					0.06192421		0.00047284	389.44	0.75652127
216.5					0.06217496		0.00044356	391.25	0.75911661

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38000 Services Steel

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 55.336110 FIT INDEX 0.000576 VARIANCE 0.457566

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 84.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
217.5					0.06242572		0.00041599	393.05	0.76181719
218.5					0.06267647		0.00039002	394.86	0.76463147
219.5					0.06292722		0.00036557	396.67	0.76756854
220.5					0.06317798		0.00034257	398.47	0.77063822
221.5					0.06342873		0.00032093	400.28	0.77385113
222.5					0.06367948		0.00030057	402.09	0.77721866
223.5					0.06393024		0.00028143	403.90	0.78075312
224.5					0.06418099		0.00026344	405.70	0.78446782
225.5					0.06443174		0.00024653	407.51	0.78837713
226.5					0.06468250		0.00023065	409.32	0.79249652
227.5					0.06493325		0.00021573	411.12	0.79684273
228.5					0.06518400		0.00020172	412.93	0.80143386
229.5					0.06543476		0.00018857	414.74	0.80628942
230.5					0.06568551		0.00017623	416.55	0.81143056
231.5					0.06593626		0.00016466	418.35	0.81688011
232.5					0.06618701		0.00015380	420.16	0.82266276
233.5					0.06643777		0.00014362	421.97	0.82880522
234.5					0.06668852		0.00013408	423.77	0.83533641
235.5					0.06693927		0.00012514	425.58	0.84228761
236.5					0.06719003		0.00011676	427.39	0.84969269
237.5					0.06744078		0.00010891	429.20	0.85758831
238.5					0.06769153		0.00010157	431.00	0.86601421
239.5					0.06794229		0.00009469	432.81	0.87501342
240.5					0.06819304		0.00008826	434.62	0.88463257
241.5					0.06844379		0.00008224	436.42	0.89492221
242.5					0.06869455		0.00007661	438.23	0.90593714
243.5					0.06894530		0.00007135	440.04	0.91773679
244.5					0.06919605		0.00006643	441.85	0.93038562
245.5					0.06944681		0.00006183	443.65	0.94395357
246.5					0.06969756		0.00005754	445.46	0.95851656
247.5					0.06994831		0.00005353	447.27	0.97415699
248.5							0.00004978	449.07	0.99096431

EQUIVALENT H CURVE IS 0.60

EQUIVALENT L CURVE IS 0.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS

Peoples Gas System
Net Salvage Analysis
Account - 380.00 - Services Steel
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	112,304	(381,369)	(340)	2,365	2	(379,004)	(337)
2009	152,641	(537,477)	(352)	1,150	1	(536,327)	(351)
2008	207,489	(589,778)	(284)	950	0	(588,828)	(284)
2007	492,903	(1,163,317)	(236)	650	0	(1,162,667)	(236)
2006	584,933	(868,366)	(148)	79,890	14	(788,476)	(135)
2005	618,691	(976,036)	(158)	0	0	(976,036)	(158)
2004	677,742	(979,873)	(145)	0	0	(979,873)	(145)
2003	505,854	(716,577)	(142)	3,291	1	(713,286)	(141)
2002	493,516	(716,516)	(145)	1,028	0	(715,489)	(145)
2001	467,567	(852,871)	(182)	4,325	1	(848,546)	(181)
2000	480,238	(777,965)	(162)	7,231	2	(770,734)	(160)
1999	289,592	(467,339)	(161)	0	0	(467,339)	(161)
1998	173,029	(608,529)	(352)	0	0	(608,529)	(352)
1997	541,094	(790,854)	(146)	0	0	(790,854)	(146)
1996	854,832	(1,172,221)	(137)	0	0	(1,172,221)	(137)
1995	782,018	(606,899)	(78)	0	0	(606,899)	(78)
1994	217,950	(231,747)	(106)	0	0	(231,747)	(106)
1993	332,529	(405,151)	(122)	0	0	(405,151)	(122)
1992	490,957	(586,487)	(119)	0	0	(586,487)	(119)
1991	570,207	(648,317)	(114)	0	0	(648,317)	(114)
1990	550,333	(642,375)	(117)	0	0	(642,375)	(117)
1989	360,595	(358,704)	(99)	0	0	(358,704)	(99)
1988	395,452	(312,431)	(79)	0	0	(312,431)	(79)
1987	344,097	(433,790)	(126)	0	0	(433,790)	(126)
1986	202,642	(373,071)	(184)	0	0	(373,071)	(184)
1985	310,179	(330,739)	(107)	0	0	(330,739)	(107)
1984	147,311	(249,398)	(169)	0	0	(249,398)	(169)
1983	183,514	(206,045)	(112)	0	0	(206,045)	(112)
1982	0	0	0	0	0	0	0
	11,540,205	**(16,984,242)**	**(147)**	**100,879**	**1**	**(16,883,363)**	**(146)**

Peoples Gas System
Net Salvage Analysis
Account - 380.00 - Services Steel
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	1,550,269	(3,540,308)	(228)	85,005	5	(3,455,303)	(223)
2009	2,056,656	(4,134,974)	(201)	82,640	4	(4,052,334)	(197)
2008	2,581,758	(4,577,370)	(177)	81,490	3	(4,495,880)	(174)
2007	2,880,123	(4,704,170)	(163)	83,831	3	(4,620,339)	(160)
2006	2,880,736	(4,257,369)	(148)	84,209	3	(4,173,160)	(145)
2005	2,763,369	(4,241,874)	(154)	8,644	0	(4,233,230)	(153)
2004	2,624,916	(4,043,803)	(154)	15,874	1	(4,027,928)	(153)
2003	2,236,766	(3,531,269)	(158)	15,874	1	(3,515,394)	(157)
2002	1,903,941	(3,423,221)	(180)	12,583	1	(3,410,637)	(179)
2001	1,951,519	(3,497,558)	(179)	11,556	1	(3,486,002)	(179)
2000	2,338,785	(3,816,908)	(163)	7,231	0	(3,809,677)	(163)
1999	2,640,565	(3,645,842)	(138)	0	0	(3,645,842)	(138)
1998	2,568,922	(3,410,250)	(133)	0	0	(3,410,250)	(133)
1997	2,728,421	(3,206,872)	(118)	0	0	(3,206,872)	(118)
1996	2,678,284	(3,002,505)	(112)	0	0	(3,002,505)	(112)
1995	2,393,659	(2,478,601)	(104)	0	0	(2,478,601)	(104)
1994	2,161,974	(2,514,077)	(116)	0	0	(2,514,077)	(116)
1993	2,304,620	(2,641,034)	(115)	0	0	(2,641,034)	(115)
1992	2,367,543	(2,548,314)	(108)	0	0	(2,548,314)	(108)
1991	2,220,683	(2,395,617)	(108)	0	0	(2,395,617)	(108)
1990	1,853,119	(2,120,370)	(114)	0	0	(2,120,370)	(114)
1989	1,612,965	(1,808,735)	(112)	0	0	(1,808,735)	(112)
1988	1,399,681	(1,699,429)	(121)	0	0	(1,699,429)	(121)
1987	1,187,743	(1,593,042)	(134)	0	0	(1,593,042)	(134)
1986	843,646	(1,159,252)	(137)	0	0	(1,159,252)	(137)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002. Services Plastic

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -55.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	7620151.	0.015381	117207.	7502944.
2010	1.50	8932639.	0.046044	411294.	8521345.
2009	2.50	6168241.	0.076564	472267.	5695974.
2008	3.50	8017039.	0.106930	857265.	7159774.
2007	4.50	9703391.	0.137098	1330311.	8373080.
2006	5.50	11068788.	0.167048	1849024.	9219764.
2005	6.50	10415525.	0.196762	2049380.	8366145.
2004	7.50	10945303.	0.226207	2475899.	8469404.
2003	8.50	10795695.	0.255353	2756718.	8038977.
2002	9.50	9791783.	0.284184	2782672.	7009111.
2001	10.50	2761481.	0.312661	863408.	1898073.
2000	11.50	22759778.	0.340771	7755882.	15003896.
1999	12.50	7698987.	0.368485	2836958.	4862029.
1998	13.50	5979505.	0.395771	2366514.	3612991.
1997	14.50	6061143.	0.422627	2561602.	3499541.
1996	15.50	5161084.	0.449025	2317458.	2843626.
1995	16.50	4886565.	0.474950	2320873.	2565692.
1994	17.50	5202762.	0.500387	2603395.	2599367.
1993	18.50	5002970.	0.525323	2628174.	2374796.
1992	19.50	3821342.	0.549730	2100708.	1720634.
1991	20.50	3885893.	0.573593	2228920.	1656973.
1990	21.50	4044870.	0.596876	2414285.	1630585.
1989	22.50	3094823.	0.619567	1917451.	1177372.
1988	23.50	3433747.	0.641628	2203188.	1230559.
1987	24.50	2827448.	0.663019	1874653.	952795.
1986	25.50	2649117.	0.683705	1811213.	837904.
1985	26.50	1864033.	0.703638	1311604.	552429.
1984	27.50	1532673.	0.722781	1107787.	424886.
1983	28.50	1502499.	0.741076	1113466.	389033.
1982	29.50	1330580.	0.758493	1009236.	321344.
1981	30.50	1179179.	0.775002	913867.	265312.
1980	31.50	897742.	0.790589	709745.	187997.
1979	32.50	825987.	0.805244	665121.	160866.
1978	33.50	562855.	0.818969	460961.	101894.
1977	34.50	230764.	0.831790	191947.	38817.
1976	35.50	194834.	0.843733	164388.	30446.
1975	36.50	248706.	0.854857	212608.	36098.
1974	37.50	422299.	0.865239	365390.	56909.
1973	38.50	140162.	0.874954	122635.	17527.
1972	39.50	244839.	0.884110	216465.	28374.
1971	40.50	241495.	0.892814	215610.	25885.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002. Services Plastic

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -55.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	305925.	0.901179	275693.	30232.
1969	42.50	155458.	0.909316	141360.	14098.
1968	43.50	143908.	0.917322	132010.	11898.
1967	44.50	12202.	0.925284	11290.	912.
1966	45.50	105.	0.933252	98.	7.
1965	46.50	0.	0.941201	0.	0.
1964	47.50	0.	0.949088	0.	0.
1963	48.50	109.	0.956847	104.	5.
SUBTOTAL :			0.335007	65248104.	129518320.
NET SALVAGE: -55.0%				35886457.	-35886457.
TOTAL :		194766424.	0.519261	101134561.	93631863.

WEIGHTED AGE: 11.8 YEARS
REMAINING LIFE: 21.3 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002. Services Plastic

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -55.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	7620151.	0.031250	238130.
2010	1.50 - 2.50	8932639.	0.031250	279145.
2009	2.50 - 3.50	6168241.	0.031250	192758.
2008	3.50 - 4.50	8017039.	0.031250	250533.
2007	4.50 - 5.50	9703391.	0.031250	303231.
2006	5.50 - 6.50	11068788.	0.031250	345900.
2005	6.50 - 7.50	10415525.	0.031250	325485.
2004	7.50 - 8.50	10945303.	0.031250	342041.
2003	8.50 - 9.50	10795695.	0.031250	337366.
2002	9.50 - 10.50	9791783.	0.031250	305993.
2001	10.50 - 11.50	2761481.	0.031250	86296.
2000	11.50 - 12.50	22759778.	0.031250	711243.
1999	12.50 - 13.50	7698987.	0.031250	240593.
1998	13.50 - 14.50	5979505.	0.031250	186860.
1997	14.50 - 15.50	6061143.	0.031250	189411.
1996	15.50 - 16.50	5161084.	0.031250	161284.
1995	16.50 - 17.50	4886565.	0.031250	152705.
1994	17.50 - 18.50	5202762.	0.031250	162586.
1993	18.50 - 19.50	5002970.	0.031250	156343.
1992	19.50 - 20.50	3821342.	0.031250	119417.
1991	20.50 - 21.50	3885893.	0.031250	121434.
1990	21.50 - 22.50	4044870.	0.031250	126402.
1989	22.50 - 23.50	3094823.	0.031250	96713.
1988	23.50 - 24.50	3433747.	0.031250	107305.
1987	24.50 - 25.50	2827448.	0.031250	88358.
1986	25.50 - 26.50	2649117.	0.031250	82785.
1985	26.50 - 27.50	1864033.	0.031250	58251.
1984	27.50 - 28.50	1532673.	0.031250	47896.
1983	28.50 - 29.50	1502499.	0.031250	46953.
1982	29.50 - 30.50	1330580.	0.031250	41581.
1981	30.50 - 31.50	1179179.	0.031250	36849.
1980	31.50 - 32.50	897742.	0.031250	28054.
1979	32.50 - 33.50	825987.	0.031250	25812.
1978	33.50 - 34.50	562855.	0.031250	17589.
1977	34.50 - 35.50	230764.	0.031250	7211.
1976	35.50 - 36.50	194834.	0.031250	6089.
1975	36.50 - 37.50	248706.	0.031250	7772.
1974	37.50 - 38.50	422299.	0.031250	13197.
1973	38.50 - 39.50	140162.	0.031250	4380.
1972	39.50 - 40.50	244839.	0.031250	7651.
1971	40.50 - 41.50	241495.	0.031250	7547.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002. Services Plastic

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: -55.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	305925.	0.031250	9560.
1969	42.50 - 43.50	155458.	0.031250	4858.
1968	43.50 - 44.50	143908.	0.031250	4497.
1967	44.50 - 45.50	12202.	0.031250	381.
1966	45.50 - 46.50	105.	0.031250	3.
1965	46.50 - 47.50	0.	0.031250	0.
1964	47.50 - 48.50	0.	0.031250	0.
1963	48.50 - 49.50	109.	0.031250	3.
SUBTOTAL :		194766424.	0.031250	6086453.
NET SALVAGE: -55.0 %				3347549.
TOTAL :		194766424.	0.048438	9434002.

MONTHLY RATE: 0.004036

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002. Services Plastic

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 32.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	7620151.	31.5	240094106.
2010	1.50	8932639.	30.5	272682944.
2009	2.50	6168241.	29.5	182271086.
2008	3.50	8017039.	28.6	229112679.
2007	4.50	9703391.	27.6	267938454.
2006	5.50	11068788.	26.7	295032321.
2005	6.50	10415525.	25.7	267716526.
2004	7.50	10945303.	24.8	271020814.
2003	8.50	10795695.	23.8	257247159.
2002	9.50	9791783.	22.9	224291474.
2001	10.50	2761481.	22.0	60738307.
2000	11.50	22759778.	21.1	480124481.
1999	12.50	7698987.	20.2	155584851.
1998	13.50	5979505.	19.3	115615670.
1997	14.50	6061143.	18.5	111985267.
1996	15.50	5161084.	17.6	90996008.
1995	16.50	4886565.	16.8	82102125.
1994	17.50	5202762.	16.0	83179710.
1993	18.50	5002970.	15.2	75993437.
1992	19.50	3821342.	14.4	55060265.
1991	20.50	3885893.	13.6	53023119.
1990	21.50	4044870.	12.9	52178698.
1989	22.50	3094823.	12.2	37675879.
1988	23.50	3433747.	11.5	39377884.
1987	24.50	2827448.	10.8	30489443.
1986	25.50	2649117.	10.1	26812908.
1985	26.50	1864033.	9.5	17677715.
1984	27.50	1532673.	8.9	13596335.
1983	28.50	1502499.	8.3	12449065.
1982	29.50	1330580.	7.7	10283020.
1981	30.50	1179179.	7.2	8489993.
1980	31.50	897742.	6.7	6015904.
1979	32.50	825987.	6.2	5147712.
1978	33.50	562855.	5.8	3260621.
1977	34.50	230764.	5.4	1242141.
1976	35.50	194834.	5.0	974274.
1975	36.50	248706.	4.6	1155133.
1974	37.50	422299.	4.3	1821100.
1973	38.50	140162.	4.0	560852.
1972	39.50	244839.	3.7	907981.
1971	40.50	241495.	3.4	828320.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002. Services Plastic

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 32.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	305925.	3.2	967413.
1969	42.50	155458.	2.9	451120.
1968	43.50	143908.	2.6	380737.
1967	44.50	12202.	2.4	29174.
1966	45.50	105.	2.1	224.
1965	46.50	0.	1.9	0.
1964	47.50	0.	1.6	0.
1963	48.50	109.	1.4	151.
TOTAL:		194766424.	21.3	4144584600.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002. Services Plastic

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 32.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0156	99.97544	0.02456	49.99386	0.031250	1.56231	1.53774	0.015381
1.50	0.0469	99.91488	0.06056	99.94516	0.031250	3.12329	4.60047	0.046044
2.50	0.0781	99.83725	0.07763	99.87606	0.031250	3.12113	7.64397	0.076564
3.50	0.1094	99.74013	0.09712	99.78869	0.031250	3.11840	10.66525	0.106930
4.50	0.1406	99.61719	0.12294	99.67866	0.031250	3.11496	13.65727	0.137098
5.50	0.1719	99.46469	0.15250	99.54094	0.031250	3.11066	16.61543	0.167048
6.50	0.2031	99.27806	0.18663	99.37138	0.031250	3.10536	19.53416	0.196762
7.50	0.2344	99.05100	0.22707	99.16453	0.031250	3.09889	22.40598	0.226207
8.50	0.2656	98.77700	0.27400	98.91400	0.031250	3.09106	25.22305	0.255353
9.50	0.2969	98.45031	0.32669	98.61365	0.031250	3.08168	27.97804	0.284184
10.50	0.3281	98.06194	0.38837	98.25612	0.031250	3.07051	30.66017	0.312661
11.50	0.3594	97.60569	0.45625	97.83381	0.031250	3.05731	33.26123	0.340771
12.50	0.3906	97.07225	0.53344	97.33897	0.031250	3.04184	35.76963	0.368485
13.50	0.4219	96.45150	0.62075	96.76187	0.031250	3.02381	38.17269	0.395771
14.50	0.4531	95.73681	0.71468	96.09416	0.031250	3.00294	40.46095	0.422627
15.50	0.4844	94.91706	0.81975	95.32694	0.031250	2.97897	42.62017	0.449025
16.50	0.5156	93.98212	0.93494	94.44959	0.031250	2.95155	44.63678	0.474950
17.50	0.5469	92.92188	1.06025	93.45200	0.031250	2.92038	46.49691	0.500387
18.50	0.5781	91.72519	1.19669	92.32353	0.031250	2.88511	48.18533	0.525323
19.50	0.6094	90.37806	1.34712	91.05162	0.031250	2.84536	49.68357	0.549730
20.50	0.6406	88.86756	1.51050	89.62281	0.031250	2.80071	50.97379	0.573593
21.50	0.6719	87.17681	1.69075	88.02219	0.031250	2.75069	52.03373	0.596876
22.50	0.7031	85.29300	1.88381	86.23491	0.031250	2.69484	52.84476	0.619567
23.50	0.7344	83.19725	2.09575	84.24512	0.031250	2.63266	53.38167	0.641628
24.50	0.7656	80.87112	2.32613	82.03419	0.031250	2.56357	53.61911	0.663019
25.50	0.7969	78.29706	2.57406	79.58409	0.031250	2.48700	53.53206	0.683705
26.50	0.8281	75.45700	2.84006	76.87703	0.031250	2.40241	53.09440	0.703638
27.50	0.8594	72.33750	3.11950	73.89725	0.031250	2.30929	52.28419	0.722781
28.50	0.8906	68.92400	3.41350	70.63075	0.031250	2.20721	51.07790	0.741076
29.50	0.9219	65.21612	3.70788	67.07006	0.031250	2.09594	49.46597	0.758493
30.50	0.9531	61.22100	3.99512	63.21856	0.031250	1.97558	47.44642	0.775002
31.50	0.9844	56.95975	4.26125	59.09037	0.031250	1.84657	45.03175	0.790589
32.50	1.0156	52.46669	4.49306	54.71322	0.031250	1.70979	42.24848	0.805244
33.50	1.0469	47.79106	4.67562	50.12887	0.031250	1.56653	39.13938	0.818969
34.50	1.0781	43.00013	4.79094	45.39559	0.031250	1.41861	35.76706	0.831790
35.50	1.1094	38.17050	4.82963	40.58531	0.031250	1.26829	32.20572	0.843733
36.50	1.1406	33.39200	4.77850	35.78125	0.031250	1.11816	28.54539	0.854857
37.50	1.1719	28.75844	4.63356	31.07522	0.031250	0.97110	24.88292	0.865239
38.50	1.2031	24.35594	4.40250	26.55719	0.031250	0.82991	21.31034	0.874954

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002. Services Plastic

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 32.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.2344	20.26412	4.09181	22.31003	0.031250	0.69719	17.91571	0.884110
40.50	1.2656	16.54394	3.72019	18.40403	0.031250	0.57513	14.77065	0.892814
41.50	1.2969	13.23587	3.30806	14.88991	0.031250	0.46531	11.92790	0.901179
42.50	1.3281	10.35819	2.87769	11.79703	0.031250	0.36866	9.41887	0.909316
43.50	1.3594	7.90893	2.44925	9.13356	0.031250	0.28542	7.25504	0.917322
44.50	1.3906	5.87019	2.03875	6.88956	0.031250	0.21530	5.43159	0.925284
45.50	1.4219	4.21100	1.65919	5.04059	0.031250	0.15752	3.92992	0.933252
46.50	1.4531	2.89262	1.31838	3.55181	0.031250	0.11099	2.72254	0.941201
47.50	1.4844	1.87694	1.01569	2.38478	0.031250	0.07452	1.78138	0.949088
48.50	1.5156	1.12681	0.75013	1.50188	0.031250	0.04693	1.07819	0.956847
49.50	1.5469	0.60613	0.52069	0.86647	0.031250	0.02708	0.58458	0.964449
50.50	1.5781	0.27675	0.32938	0.44144	0.031250	0.01379	0.26900	0.971984
51.50	1.6094	0.09569	0.18106	0.18622	0.031250	0.00582	0.09375	0.979788
52.50	1.6406	0.01937	0.07631	0.05753	0.031250	0.00180	0.01924	0.992970
53.50	1.6719	0.00081	0.01856	0.01009	0.031250	0.00032	0.00099	1.000000
54.50	1.7031	0.00000	0.00081	0.00041	0.031250	0.00001	0.00000	1.000000
		3199.99873	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	7620151.	0.	0.	0.	0.	0.	0.	0.	0
2010	8932639.	0.	0.	0.	0.	0.	0.	0.	0
2009	6168241.	0.	8322.	0.	0.	0.	0.	0.	0
2008	8017039.	0.	16668.	6861.	0.	0.	0.	0.	0
2007	9703391.	0.	295.	45883.	22597.	0.	0.	0.	0
2006	11068788.	0.	15262.	2329.	6801.	21650.	61.	0.	0
2005	10415525.	0.	4918.	776.	11540.	15051.	11317.	0.	0
2004	10945303.	0.	12582.	15947.	8654.	39016.	17716.	7245.	0
2003	10795695.	0.	13935.	20856.	3675.	10667.	15541.	9025.	5940
2002	9791783.	0.	1017.	17219.	10941.	32695.	6027.	11663.	6892
2001	2761481.	0.	1659.	8637.	953.	21557.	12443.	3196.	39234
2000	22759778.	104183.	13399.	48049.	34745.	118162.	83670.	105476.	73421
1999	7698987.	0.	7325.	16042.	14213.	83359.	65562.	90658.	53868
1998	5979505.	0.	9071.	8314.	7171.	40124.	38878.	40853.	36731
1997	6061143.	0.	10483.	30936.	21122.	38515.	26941.	37170.	40435
1996	5161084.	0.	16993.	16305.	6568.	26579.	30213.	43626.	29767
1995	4886565.	0.	5175.	18171.	32442.	38647.	34773.	59345.	37397
1994	5202762.	0.	11175.	6433.	6140.	42667.	21684.	130891.	35415
1993	5002970.	0.	12373.	7305.	14072.	35572.	39056.	40523.	24717
1992	3821342.	0.	5083.	10743.	12199.	30105.	25812.	45136.	28856
1991	3885893.	0.	4126.	5925.	14625.	31896.	31616.	47681.	36510
1990	4044870.	23221.	12982.	22920.	11675.	36906.	43352.	48129.	66973
1989	3094823.	0.	13667.	2389.	13203.	22036.	48544.	27911.	32612
1988	3433747.	0.	9077.	14762.	21158.	34675.	34515.	35822.	44862
1987	2827448.	0.	8353.	23660.	18628.	38063.	44343.	37575.	29306
1986	2649117.	0.	8261.	14467.	10536.	47663.	31373.	36556.	44019
1985	1864033.	0.	8551.	12568.	16471.	40000.	27403.	25490.	35567
1984	1532673.	39986.	19052.	9653.	7427.	26505.	28838.	28503.	26973
1983	1502499.	57987.	13705.	9652.	3141.	23787.	19498.	16585.	17677
1982	1330580.	3003.	4283.	3905.	4302.	13336.	16670.	24939.	13244
1981	1179179.	11602.	3527.	6368.	2468.	12468.	22959.	20063.	13965
1980	897742.	16921.	1108.	2836.	4522.	10776.	6918.	9685.	15466
1979	825987.	15815.	1355.	6878.	4440.	9826.	10448.	16953.	13542
1978	562855.	9605.	1094.	3481.	3488.	10673.	7013.	9867.	8769
1977	230764.	81739.	1730.	1238.	2267.	2313.	7490.	3860.	6188
1976	194834.	39451.	100.	653.	1468.	2627.	30373.	18413.	9550
1975	248706.	30114.	856.	702.	1281.	2317.	1177.	2773.	2227
1974	422299.	23310.	174.	1325.	1596.	3041.	3156.	2281.	2065
1973	140162.	5205.	1019.	678.	1426.	4434.	1790.	5525.	2384
1972	244839.	2838.	290.	747.	135.	3489.	3325.	3278.	1730

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	241495.	18353.	195.	374.	978.	2183.	3355.	4547.	2764
1970	305925.	114957.	1595.	4944.	2543.	6159.	4283.	1833.	3244
1969	155458.	239923.	6193.	4567.	4487.	13277.	15177.	7385.	5577
1968	143908.	0.	498.	1376.	2906.	7119.	3628.	4858.	3681
1967	12202.	0.	0.	0.	357.	751.	465.	951.	1305
1966	105.	0.	0.	0.	0.	0.	0.	0.	0
1965	0.	0.	0.	0.	0.	0.	0.	0.	0
1964	0.	0.	0.	0.	0.	0.	0.	0.	0
1963	109.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	194766424.	838213.	287526.	436874.	369361.	1000686.	877403.	1066270.	852873

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	7620151.	0.	0.	0.	0.	0.	0.	0.	0
2010	8932639.	0.	0.	0.	0.	0.	0.	0.	0
2009	6168241.	0.	0.	0.	0.	0.	0.	0.	0
2008	8017039.	0.	0.	0.	0.	0.	0.	0.	0
2007	9703391.	0.	0.	0.	0.	0.	0.	0.	0
2006	11068788.	0.	0.	0.	0.	0.	0.	0.	0
2005	10415525.	0.	0.	0.	0.	0.	0.	0.	0
2004	10945303.	0.	0.	0.	0.	0.	0.	0.	0
2003	10795695.	0.	0.	0.	0.	0.	0.	0.	0
2002	9791783.	2739.	0.	0.	0.	0.	0.	0.	0
2001	2761481.	2417.	0.	0.	0.	0.	0.	0.	0
2000	22759778.	57880.	29274.	30995.	0.	0.	0.	0.	0
1999	7698987.	18683.	16145.	15095.	5114.	0.	0.	0.	0
1998	5979505.	16282.	25274.	6479.	4220.	2608.	645.	0.	0
1997	6061143.	51351.	24704.	10044.	6267.	7731.	0.	3969.	0
1996	5161084.	23933.	21809.	19066.	10588.	3209.	11134.	2013.	0
1995	4886565.	12675.	20875.	30976.	125760.	10641.	4450.	3415.	1432
1994	5202762.	23589.	39685.	24565.	143243.	18844.	8399.	2073.	1159
1993	5002970.	24612.	29051.	32166.	37681.	17577.	9592.	21068.	1067
1992	3821342.	24785.	21349.	28224.	19522.	16269.	9055.	9347.	14390
1991	3885893.	24024.	29423.	27341.	19072.	26101.	6520.	16933.	12465
1990	4044870.	45881.	40292.	45110.	25436.	31752.	10077.	42977.	29006
1989	3094823.	27075.	15286.	24395.	14550.	26737.	12310.	25484.	17660
1988	3433747.	26453.	16335.	27844.	28773.	17991.	17172.	26065.	15992
1987	2827448.	19798.	21969.	27714.	27280.	27919.	8719.	19329.	13843
1986	2649117.	39288.	29533.	67358.	25804.	31083.	12135.	24265.	16444
1985	1864033.	23225.	23895.	28019.	27684.	24337.	9326.	27411.	21393
1984	1532673.	19723.	17261.	21368.	25250.	19953.	13308.	19643.	23125
1983	1502499.	15377.	30562.	15212.	10843.	17709.	4148.	6128.	30419
1982	1330580.	12664.	12174.	9866.	18303.	9535.	3110.	14266.	20618
1981	1179179.	8132.	8436.	20986.	17265.	10729.	2664.	46251.	23872
1980	897742.	7220.	7275.	11980.	13511.	10470.	16022.	36812.	82923
1979	825987.	24170.	11960.	12663.	16384.	17262.	9505.	21572.	17666
1978	562855.	12052.	5570.	10701.	15944.	8718.	5255.	12091.	10325
1977	230764.	4959.	3682.	8166.	5338.	5352.	130.	1891.	2337
1976	194834.	3248.	4337.	3198.	4739.	3835.	1310.	2946.	4310
1975	248706.	929.	2328.	2407.	5508.	6092.	902.	4999.	7763
1974	422299.	2141.	2396.	4963.	2517.	4286.	1123.	3577.	1387
1973	140162.	1723.	1959.	3569.	1878.	1990.	892.	3461.	2322
1972	244839.	1083.	1080.	1240.	3315.	2890.	665.	5121.	9673

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	241495.	1985.	1749.	1763.	2602.	1590.	2928.	1674.	8794
1970	305925.	2401.	903.	2495.	2013.	2587.	588.	11658.	16937
1969	155458.	2761.	3117.	2562.	5645.	986.	1529.	11799.	7734
1968	143908.	1542.	1726.	1479.	1946.	518.	1553.	5168.	6930
1967	12202.	284.	137.	253.	256.	95.	134.	1698.	1697
1966	105.	0.	0.	0.	0.	0.	0.	99.	38
1965	0.	0.	0.	0.	0.	0.	0.	0.	0
1964	0.	0.	0.	0.	0.	0.	0.	0.	0
1963	109.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	194766424.	587084.	521551.	580262.	674251.	387396.	185300.	435203.	423721

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	7620151.	0.	0.	0.	0.	0.	0.	0.	0
2010	8932639.	0.	0.	0.	0.	0.	0.	0.	0
2009	6168241.	0.	0.	0.	0.	0.	0.	0.	0
2008	8017039.	0.	0.	0.	0.	0.	0.	0.	0
2007	9703391.	0.	0.	0.	0.	0.	0.	0.	0
2006	11068788.	0.	0.	0.	0.	0.	0.	0.	0
2005	10415525.	0.	0.	0.	0.	0.	0.	0.	0
2004	10945303.	0.	0.	0.	0.	0.	0.	0.	0
2003	10795695.	0.	0.	0.	0.	0.	0.	0.	0
2002	9791783.	0.	0.	0.	0.	0.	0.	0.	0
2001	2761481.	0.	0.	0.	0.	0.	0.	0.	0
2000	22759778.	0.	0.	0.	0.	0.	0.	0.	0
1999	7698987.	0.	0.	0.	0.	0.	0.	0.	0
1998	5979505.	0.	0.	0.	0.	0.	0.	0.	0
1997	6061143.	0.	0.	0.	0.	0.	0.	0.	0
1996	5161084.	0.	0.	0.	0.	0.	0.	0.	0
1995	4886565.	0.	0.	0.	0.	0.	0.	0.	0
1994	5202762.	4265.	0.	0.	0.	0.	0.	0.	0
1993	5002970.	0.	0.	0.	0.	0.	0.	0.	0
1992	3821342.	432.	0.	0.	0.	0.	0.	0.	0
1991	3885893.	0.	1509.	2036.	2332.	0.	0.	0.	0
1990	4044870.	12801.	4779.	2186.	195.	0.	20.	0.	0
1989	3094823.	2199.	1462.	6006.	2872.	7657.	4753.	0.	0
1988	3433747.	1519.	1752.	630.	1511.	1645.	10580.	11829.	1207
1987	2827448.	6638.	10398.	7963.	28608.	1289.	25460.	4752.	3698
1986	2649117.	9982.	21766.	1016.	11719.	4584.	24208.	8057.	4383
1985	1864033.	9614.	7727.	3688.	12374.	3971.	28918.	2928.	10105
1984	1532673.	26446.	11488.	3118.	8989.	2561.	25124.	6010.	2095
1983	1502499.	8171.	14670.	5606.	6142.	1305.	8454.	5197.	5980
1982	1330580.	6088.	5971.	10045.	6701.	32345.	10214.	2794.	4704
1981	1179179.	22935.	9789.	14864.	3582.	2312.	18737.	3193.	6873
1980	897742.	80653.	48024.	15084.	11513.	10962.	7451.	8518.	15848
1979	825987.	21577.	14197.	15834.	15507.	18773.	13540.	8429.	6291
1978	562855.	10617.	5389.	8513.	9707.	2516.	11873.	1808.	2503
1977	230764.	2039.	3890.	13284.	4517.	2177.	11122.	2927.	2168
1976	194834.	3542.	1415.	3808.	2538.	1410.	6880.	2375.	5179
1975	248706.	10191.	13083.	13409.	5540.	1917.	3001.	1257.	3172
1974	422299.	3075.	2452.	8612.	1982.	3339.	8694.	7954.	1715
1973	140162.	16160.	3097.	7466.	2132.	1502.	10906.	1622.	2951
1972	244839.	9600.	4287.	5926.	1582.	215.	3369.	1498.	5273

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	241495.	1665.	1774.	10735.	3363.	2699.	7434.	1703.	2502
1970	305925.	26421.	11247.	16930.	10212.	4135.	17730.	7080.	16463
1969	155458.	7163.	8908.	7311.	6763.	7626.	12314.	2081.	2802
1968	143908.	8019.	1587.	5507.	9172.	4618.	15709.	2637.	4371
1967	12202.	1473.	369.	508.	764.	102.	660.	166.	173
1966	105.	0.	7.	702.	312.	498.	1002.	987.	560
1965	0.	480.	605.	192.	0.	0.	749.	1747.	1252
1964	0.	0.	0.	0.	0.	0.	0.	220.	263
1963	109.	0.	0.	0.	31.	0.	0.	0.	0
TOTAL	194766424.	313765.	211642.	190979.	170660.	120158.	288902.	97769.	112531

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986
2011	7620151.	0.	0.
2010	8932639.	0.	0.
2009	6168241.	0.	0.
2008	8017039.	0.	0.
2007	9703391.	0.	0.
2006	11068788.	0.	0.
2005	10415525.	0.	0.
2004	10945303.	0.	0.
2003	10795695.	0.	0.
2002	9791783.	0.	0.
2001	2761481.	0.	0.
2000	22759778.	0.	0.
1999	7698987.	0.	0.
1998	5979505.	0.	0.
1997	6061143.	0.	0.
1996	5161084.	0.	0.
1995	4886565.	0.	0.
1994	5202762.	0.	0.
1993	5002970.	0.	0.
1992	3821342.	0.	0.
1991	3885893.	0.	0.
1990	4044870.	0.	0.
1989	3094823.	0.	0.
1988	3433747.	0.	0.
1987	2827448.	0.	0.
1986	2649117.	10952.	0.
1985	1864033.	7234.	458.
1984	1532673.	3100.	2377.
1983	1502499.	7347.	1427.
1982	1330580.	3576.	4574.
1981	1179179.	230.	1169.
1980	897742.	12205.	3386.
1979	825987.	6470.	5790.
1978	562855.	863.	4286.
1977	230764.	1882.	1516.
1976	194834.	895.	12.
1975	248706.	706.	1384.
1974	422299.	2109.	979.
1973	140162.	1100.	2657.
1972	244839.	6964.	831.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986
1971	241495.	2946.	193.
1970	305925.	32631.	5539.
1969	155458.	21661.	1818.
1968	143908.	4704.	2807.
1967	12202.	68.	398.
1966	105.	40.	81.
1965	0.	3363.	3799.
1964	0.	153.	73.
1963	109.	0.	0.
TOTAL	194766424.	131199.	45554.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1986 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	189416607.	5902.	0.00003116	0.99996884	1.00000000
0.5	184092944.	167120.	0.00090780	0.99909220	0.99996884
1.5	176963734.	231695.	0.00130928	0.99869072	0.99906107
2.5	172423026.	273981.	0.00158900	0.99841100	0.99775302
3.5	165733816.	291827.	0.00176082	0.99823918	0.99616758
4.5	157233216.	558820.	0.00355408	0.99644592	0.99441351
5.5	146971439.	663190.	0.00451237	0.99548763	0.99087928
6.5	137055558.	551583.	0.00402452	0.99597548	0.98640807
7.5	126314248.	497672.	0.00393995	0.99606005	0.98243825
8.5	115435847.	491154.	0.00425478	0.99574522	0.97856749
9.5	105506356.	434518.	0.00411841	0.99588159	0.97440390
10.5	102685098.	629640.	0.00613176	0.99386824	0.97039091
11.5	79818228.	465315.	0.00582968	0.99417032	0.96444071
12.5	71883936.	499780.	0.00695260	0.99304740	0.95881832
13.5	65729934.	489121.	0.00744137	0.99255863	0.95215205
14.5	59512013.	504198.	0.00847221	0.99152779	0.94506673
15.5	54480184.	500072.	0.00917897	0.99082103	0.93705993
16.5	49660171.	426939.	0.00859721	0.99140279	0.92845868
17.5	44278437.	359827.	0.00812646	0.99187354	0.92047653
18.5	38940906.	353211.	0.00907044	0.99092956	0.91299631
19.5	34770784.	297915.	0.00856797	0.99143203	0.90471504
20.5	30599163.	299104.	0.00977491	0.99022509	0.89696347
21.5	26255898.	267893.	0.01020316	0.98979684	0.88819573
22.5	22893322.	212790.	0.00929485	0.99070515	0.87913333
23.5	19246785.	199745.	0.01037810	0.98962190	0.87096192
24.5	16219592.	167467.	0.01032498	0.98967502	0.86192299
25.5	13403008.	123170.	0.00918973	0.99081027	0.85302365
26.5	11415805.	144060.	0.01261935	0.98738065	0.84518460
27.5	9739072.	136197.	0.01398460	0.98601540	0.83451892
28.5	8100376.	72168.	0.00890922	0.99109078	0.82284851
29.5	6697628.	71934.	0.01074022	0.98925978	0.81551757
30.5	5446515.	44216.	0.00811822	0.99188178	0.80675873
31.5	4504557.	39834.	0.00884304	0.99115696	0.80020929
32.5	3638736.	31395.	0.00862800	0.99137200	0.79313300
33.5	3044486.	104427.	0.03430037	0.96569963	0.78628986
34.5	2709295.	58991.	0.02177356	0.97822644	0.75931982
35.5	2455470.	48917.	0.01992164	0.98007836	0.74278673
36.5	2157847.	53553.	0.02481779	0.97518221	0.72798919
37.5	1681995.	26268.	0.01561717	0.98438283	0.70992211
38.5	1515565.	20048.	0.01322807	0.98677193	0.69883513

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38002 Services Plastic

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1986 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	1250678.	28172.	0.02252538	0.97747462	0.68959089
40.5	981011.	122883.	0.12526159	0.87473841	0.67405760
41.5	552203.	240421.	0.43538518	0.56461482	0.58962407
42.5	156324.	0.	0.00000000	1.00000000	0.33291049
43.5	12416.	0.	0.00000000	1.00000000	0.33291049
44.5	214.	0.	0.00000000	1.00000000	0.33291049
45.5	110.	0.	0.00000000	1.00000000	0.33291049
46.5	110.	0.	0.00000000	1.00000000	0.33291049
47.5	109.	0.	0.00000000	1.00000000	0.33291049
TOTAL		11207133.			38.63888627

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 54.350080 FIT INDEX 0.001020 VARIANCE 0.270973

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	189416607.	5902.	27189.	0.00003116	0.00014354	1.00000000	1.00000000	0.00	0.00000000
0.5	184092944.	167120.	101109.	0.00090780	0.00054923	0.99996884	0.99985646	0.92	0.00905697
1.5	176963734.	231695.	189974.	0.00130928	0.00107352	0.99906107	0.99930731	2.76	0.02691669
2.5	172423026.	273981.	275499.	0.00158900	0.00159781	0.99775302	0.99823454	4.60	0.04428003
3.5	165733816.	291827.	351704.	0.00176082	0.00212210	0.99616758	0.99663955	6.44	0.06116448
4.5	157233216.	558820.	416101.	0.00355408	0.00264639	0.99441351	0.99452458	8.28	0.07758673
5.5	146971439.	663190.	466000.	0.00451237	0.00317068	0.99087928	0.99189268	10.12	0.09356286
6.5	137055558.	551583.	506417.	0.00402452	0.00369498	0.98640807	0.98874770	11.96	0.10910821
7.5	126314248.	497672.	532954.	0.00393995	0.00421927	0.98243825	0.98509430	13.80	0.12423751
8.5	115435847.	491154.	547577.	0.00425478	0.00474356	0.97856749	0.98093793	15.64	0.13896503
9.5	105506356.	434518.	555792.	0.00411841	0.00526785	0.97440390	0.97628479	17.48	0.15330428
10.5	102685098.	629640.	594767.	0.00613176	0.00579214	0.97039091	0.97114187	19.32	0.16726833
11.5	79818228.	465315.	504167.	0.00582968	0.00631643	0.96444071	0.96551688	21.16	0.18086976
12.5	71883936.	499780.	491738.	0.00695260	0.00684073	0.95881832	0.95941825	23.00	0.19412057
13.5	65729934.	489121.	484102.	0.00744137	0.00736502	0.95215205	0.95285514	24.84	0.20703242
14.5	59512013.	504198.	469509.	0.00847221	0.00788931	0.94506673	0.94583734	26.68	0.21961634
15.5	54480184.	500072.	458375.	0.00917897	0.00841360	0.93705993	0.93837534	28.52	0.23188312
16.5	49660171.	426939.	443857.	0.00859721	0.00893789	0.92845868	0.93048022	30.36	0.24384291
17.5	44278437.	359827.	418971.	0.00812646	0.00946218	0.92047653	0.92216369	32.20	0.25550573
18.5	38940906.	353211.	388882.	0.00907044	0.00998648	0.91299631	0.91343801	34.04	0.26688104
19.5	34770784.	297915.	365468.	0.00856797	0.01051077	0.90471504	0.90431598	35.88	0.27797792
20.5	30599163.	299104.	337664.	0.00977491	0.01103506	0.89696347	0.89481093	37.72	0.28880526
21.5	26255898.	267893.	303501.	0.01020316	0.01155935	0.88819573	0.88493664	39.56	0.29937148
22.5	22893322.	212790.	276635.	0.00929485	0.01208364	0.87913333	0.87470734	41.40	0.30968479
23.5	19246785.	199745.	242662.	0.01037810	0.01260793	0.87096192	0.86413769	43.24	0.31975297
24.5	16219592.	167467.	212999.	0.01032498	0.01313223	0.86192299	0.85324270	45.08	0.32958370
25.5	13403008.	123170.	183038.	0.00918973	0.01365652	0.85302365	0.84203772	46.92	0.33918414
26.5	11415805.	144060.	161885.	0.01261935	0.01418081	0.84518460	0.83053842	48.76	0.34856135
27.5	9739072.	136197.	143214.	0.01398460	0.01470510	0.83451892	0.81876071	50.60	0.35772209
28.5	8100376.	72168.	123364.	0.00890922	0.01522939	0.82284851	0.80672076	52.44	0.36667289
29.5	6697628.	71934.	105512.	0.01074022	0.01575368	0.81551757	0.79443489	54.28	0.37542005
30.5	5446515.	44216.	88658.	0.00811822	0.01627798	0.80675873	0.78191961	56.12	0.38396962
31.5	4504557.	39834.	75687.	0.00884304	0.01680227	0.80020929	0.76919154	57.96	0.39232743

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 54.350080 FIT INDEX 0.001020 VARIANCE 0.270973

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	3638736.	31395.	63047.	0.00862800	0.01732656	0.79313300	0.75626738	59.80	0.40049912
33.5	3044486.	104427.	54347.	0.03430037	0.01785085	0.78628986	0.74316387	61.64	0.40849013
34.5	2709295.	58991.	49784.	0.02177356	0.01837514	0.75931982	0.72989776	63.48	0.41630571
35.5	2455470.	48917.	46407.	0.01992164	0.01889943	0.74278673	0.71648579	65.32	0.42395093
36.5	2157847.	53553.	41913.	0.02481779	0.01942373	0.72798919	0.70294461	67.16	0.43143067
37.5	1681995.	26268.	33552.	0.01561717	0.01994802	0.70992211	0.68929081	69.00	0.43874962
38.5	1515565.	20048.	31027.	0.01322807	0.02047231	0.69883513	0.67554082	70.84	0.44591240
39.5	1250678.	28172.	26260.	0.02252538	0.02099660	0.68959089	0.66171094	72.68	0.45292338
40.5	981011.	122883.	21112.	0.12526159	0.02152089	0.67405760	0.64781726	74.52	0.45978680
41.5	552203.	240421.	12173.	0.43538518	0.02204518	0.58962407	0.63387565	76.36	0.46650682
42.5	156324.	0.	3528.	0.00000000	0.02256948	0.33291049	0.61990175	78.20	0.47308734
43.5	12416.	0.	287.	0.00000000	0.02309377	0.33291049	0.60591089	80.04	0.47953226
44.5	214.	0.	5.	0.00000000	0.02361806	0.33291049	0.59191812	81.88	0.48584528
45.5	110.	0.	3.	0.00000000	0.02414235	0.33291049	0.57793817	83.72	0.49203000
46.5	110.	0.	3.	0.00000000	0.02466664	0.33291049	0.56398538	85.56	0.49808987
47.5	109.	0.	3.	0.00000000	0.02519093	0.33291049	0.55007375	87.40	0.50402824
TOTAL (EXCEPT AGE 0)	11201230.	11201230.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 54.350080 FIT INDEX 0.001020 VARIANCE 0.270973

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 47.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
48.5					0.02571523		0.53621688	89.24	0.50984835
49.5					0.02623952		0.52242794	91.08	0.51555335
50.5					0.02676381		0.50871969	92.92	0.52114629
51.5					0.02728810		0.49510441	94.76	0.52663012
52.5					0.02781239		0.48159395	96.60	0.53200771
53.5					0.02833669		0.46819967	98.44	0.53728178
54.5					0.02886098		0.45493244	100.28	0.54245503
55.5					0.02938527		0.44180265	102.12	0.54753002
56.5					0.02990956		0.42882016	103.96	0.55250930
57.5					0.03043385		0.41599434	105.80	0.55739529
58.5					0.03095814		0.40333403	107.64	0.56219032
59.5					0.03148244		0.39084755	109.48	0.56689667
60.5					0.03200673		0.37854272	111.32	0.57151656
61.5					0.03253102		0.36642681	113.16	0.57605217
62.5					0.03305531		0.35450657	115.00	0.58050553
63.5					0.03357960		0.34278825	116.84	0.58487871
64.5					0.03410389		0.33127755	118.68	0.58917363
65.5					0.03462819		0.31997970	120.51	0.59339221
66.5					0.03515248		0.30889938	122.35	0.59753629
67.5					0.03567677		0.29804080	124.19	0.60160766
68.5					0.03620106		0.28740767	126.03	0.60560806
69.5					0.03672535		0.27700321	127.87	0.60953917
70.5					0.03724964		0.26683017	129.71	0.61340263
71.5					0.03777394		0.25689084	131.55	0.61720001
72.5					0.03829823		0.24718706	133.39	0.62093288
73.5					0.03882252		0.23772023	135.23	0.62460274
74.5					0.03934681		0.22849134	137.07	0.62821102
75.5					0.03987110		0.21950093	138.91	0.63175918
76.5					0.04039539		0.21074919	140.75	0.63524858
77.5					0.04091969		0.20223589	142.59	0.63868055
78.5					0.04144398		0.19396046	144.43	0.64205639
79.5					0.04196827		0.18592197	146.27	0.64537738
80.5					0.04249256		0.17811915	148.11	0.64864474

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 54.350080 FIT INDEX 0.001020 VARIANCE 0.270973

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 47.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
81.5					0.04301685		0.17055041	149.95	0.65185970
82.5					0.04354114		0.16321387	151.79	0.65502338
83.5					0.04406544		0.15610735	153.63	0.65813696
84.5					0.04458973		0.14922841	155.47	0.66120151
85.5					0.04511402		0.14257435	157.31	0.66421811
86.5					0.04563831		0.13614225	159.15	0.66718781
87.5					0.04616260		0.12992895	160.99	0.67011165
88.5					0.04668689		0.12393109	162.83	0.67299062
89.5					0.04721119		0.11814513	164.67	0.67582567
90.5					0.04773548		0.11256736	166.51	0.67861776
91.5					0.04825977		0.10719390	168.35	0.68136780
92.5					0.04878406		0.10202075	170.19	0.68407668
93.5					0.04930835		0.09704377	172.03	0.68674528
94.5					0.04983264		0.09225870	173.87	0.68937447
95.5					0.05035694		0.08766120	175.71	0.69196506
96.5					0.05088123		0.08324685	177.55	0.69451788
97.5					0.05140552		0.07901115	179.39	0.69703373
98.5					0.05192981		0.07494954	181.23	0.69951339
99.5					0.05245410		0.07105743	183.07	0.70195760
100.5					0.05297839		0.06733017	184.91	0.70436713
101.5					0.05350269		0.06376313	186.75	0.70674266
102.5					0.05402698		0.06035163	188.59	0.70908496
103.5					0.05455127		0.05709101	190.43	0.71139469
104.5					0.05507556		0.05397663	192.27	0.71367255
105.5					0.05559985		0.05100383	194.11	0.71591921
106.5					0.05612414		0.04816803	195.95	0.71813531
107.5					0.05664844		0.04546464	197.79	0.72032150
108.5					0.05717273		0.04288914	199.63	0.72247843
109.5					0.05769702		0.04043705	201.47	0.72460670
110.5					0.05822131		0.03810395	203.31	0.72670695
111.5					0.05874560		0.03588549	205.15	0.72877977
112.5					0.05926989		0.03377737	206.99	0.73082578
113.5					0.05979419		0.03177539	208.83	0.73284554

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 54.350080 FIT INDEX 0.001020 VARIANCE 0.270973

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
114.5					0.06031848		0.02987541	210.67	0.73483964
115.5					0.06084277		0.02807337	212.51	0.73680866
116.5					0.06136706		0.02636531	214.35	0.73875319
117.5					0.06189135		0.02474735	216.19	0.74067379
118.5					0.06241565		0.02321570	218.03	0.74257101
119.5					0.06293994		0.02176668	219.87	0.74444546
120.5					0.06346423		0.02039668	221.71	0.74629765
121.5					0.06398852		0.01910222	223.55	0.74812818
122.5					0.06451281		0.01787990	225.39	0.74993762
123.5					0.06503710		0.01672642	227.23	0.75172653
124.5					0.06556140		0.01563858	229.07	0.75349551
125.5					0.06608569		0.01461329	230.91	0.75524513
126.5					0.06660998		0.01364756	232.75	0.75697600
127.5					0.06713427		0.01273850	234.59	0.75868873
128.5					0.06765856		0.01188331	236.43	0.76038389
129.5					0.06818285		0.01107930	238.27	0.76206215
130.5					0.06870715		0.01032388	240.11	0.76372416
131.5					0.06923144		0.00961456	241.95	0.76537060
132.5					0.06975573		0.00894893	243.79	0.76700216
133.5					0.07028002		0.00832469	245.63	0.76861955
134.5					0.07080431		0.00773963	247.47	0.77022355
135.5					0.07132860		0.00719163	249.31	0.77181493
136.5					0.07185290		0.00667866	251.15	0.77339451
137.5					0.07237719		0.00619878	252.99	0.77496318
138.5					0.07290148		0.00575013	254.83	0.77652184
139.5					0.07342577		0.00533094	256.67	0.77807151
140.5					0.07395006		0.00493951	258.51	0.77961319
141.5					0.07447435		0.00457423	260.35	0.78114800
142.5					0.07499865		0.00423357	262.19	0.78267711
143.5					0.07552294		0.00391606	264.03	0.78420181
144.5					0.07604723		0.00362031	265.87	0.78572348
145.5					0.07657152		0.00334499	267.71	0.78724357
146.5					0.07709581		0.00308886	269.55	0.78876368

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 54.350080 FIT INDEX 0.001020 VARIANCE 0.270973

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
147.5					0.07762010		0.00285072	271.39	0.79028557
148.5					0.07814440		0.00262945	273.23	0.79181109
149.5					0.07866869		0.00242397	275.07	0.79334229
150.5					0.07919298		0.00223328	276.91	0.79488139
151.5					0.07971727		0.00205642	278.75	0.79643084
152.5					0.08024156		0.00189249	280.59	0.79799329
153.5					0.08076585		0.00174063	282.43	0.79957164
154.5					0.08129015		0.00160005	284.27	0.80116912
155.5					0.08181444		0.00146998	286.11	0.80278923
156.5					0.08233873		0.00134972	287.95	0.80443582
157.5					0.08286302		0.00123858	289.79	0.80611318
158.5					0.08338731		0.00113595	291.63	0.80782598
159.5					0.08391160		0.00104122	293.47	0.80957944
160.5					0.08443590		0.00095385	295.31	0.81137925
161.5					0.08496019		0.00087331	297.15	0.81323176
162.5					0.08548448		0.00079912	298.99	0.81514399
163.5					0.08600877		0.00073081	300.83	0.81712371
164.5					0.08653306		0.00066795	302.67	0.81917955
165.5					0.08705735		0.00061015	304.51	0.82132108
166.5					0.08758165		0.00055703	306.35	0.82355893
167.5					0.08810594		0.00050825	308.19	0.82590491
168.5					0.08863023		0.00046347	310.03	0.82837217
169.5					0.08915452		0.00042239	311.87	0.83097534
170.5					0.08967881		0.00038473	313.71	0.83373073
171.5					0.09020310		0.00035023	315.55	0.83665651
172.5					0.09072740		0.00031864	317.39	0.83977294
173.5					0.09125169		0.00028973	319.23	0.84310263
174.5					0.09177598		0.00026329	321.07	0.84667084
175.5					0.09230027		0.00023913	322.91	0.85050580
176.5					0.09282456		0.00021706	324.75	0.85463906
177.5					0.09334885		0.00019691	326.59	0.85910592
178.5					0.09387315		0.00017853	328.43	0.86394588
179.5					0.09439744		0.00016177	330.27	0.86920321

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 54.350080 FIT INDEX 0.001020 VARIANCE 0.270973

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 47.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
180.5					0.09492173		0.00014650	332.11	0.87492750
181.5					0.09544602		0.00013259	333.95	0.88117436
182.5					0.09597031		0.00011994	335.79	0.88800617
183.5					0.09649461		0.00010843	337.63	0.89549293
184.5					0.09701890		0.00009796	339.47	0.90371330
185.5					0.09754319		0.00008846	341.31	0.91275565
186.5					0.09806748		0.00007983	343.15	0.92271932
187.5					0.09859177		0.00007200	344.99	0.93371608
188.5					0.09911606		0.00006490	346.83	0.94587170
189.5					0.09964036		0.00005847	348.67	0.95932784
190.5					0.10016465		0.00005264	350.51	0.97424410
191.5							0.00004737	352.35	0.99080038

EQUIVALENT H CURVE IS 1.60

EQUIVALENT L CURVE IS 1.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS -0.50

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 2 AVG LIFE 45.279430 FIT INDEX 0.001013 VARIANCE 0.169168

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 47.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	189416607.	5902.	199851.	0.00003116	0.00105509	1.00000000	1.00000000	0.00	0.00000000
0.5	184092944.	167120.	394290.	0.00090780	0.00214180	0.99996884	0.99894491	1.10	0.00999241
1.5	176963734.	231695.	394970.	0.00130928	0.00223193	0.99906107	0.99680537	3.31	0.02997621
2.5	172423026.	273981.	406556.	0.00158900	0.00235790	0.99775302	0.99458058	5.52	0.04991617
3.5	165733816.	291827.	417602.	0.00176082	0.00251971	0.99616758	0.99223546	7.73	0.06978182
4.5	157233216.	558820.	427261.	0.00355408	0.00271737	0.99441351	0.98973531	9.94	0.08954503
5.5	146971439.	663190.	433694.	0.00451237	0.00295087	0.99087928	0.98704583	12.15	0.10917940
6.5	137055558.	551583.	441349.	0.00402452	0.00322022	0.98640807	0.98413318	14.36	0.12866067
7.5	126314248.	497672.	445310.	0.00393995	0.00352541	0.98243825	0.98096405	16.56	0.14796649
8.5	115435847.	491154.	446326.	0.00425478	0.00386644	0.97856749	0.97750575	18.77	0.16707626
9.5	105506356.	434518.	447697.	0.00411841	0.00424332	0.97440390	0.97372628	20.98	0.18597122
10.5	102685098.	629640.	478106.	0.00613176	0.00465604	0.97039091	0.96959445	23.19	0.20463450
11.5	79818228.	465315.	407441.	0.00582968	0.00510461	0.96444071	0.96507997	25.40	0.22305063
12.5	71883936.	499780.	401761.	0.00695260	0.00558902	0.95881832	0.96015362	27.61	0.24120600
13.5	65729934.	489121.	401562.	0.00744137	0.00610927	0.95215205	0.95478730	29.81	0.25908844
14.5	59512013.	504198.	396669.	0.00847221	0.00666537	0.94506673	0.94895425	32.02	0.27668712
15.5	54480184.	500072.	395379.	0.00917897	0.00725731	0.93705993	0.94262912	34.23	0.29399279
16.5	49660171.	426939.	391575.	0.00859721	0.00788509	0.92845868	0.93578817	36.44	0.31099743
17.5	44278437.	359827.	378524.	0.00812646	0.00854872	0.92047653	0.92840940	38.65	0.32769427
18.5	38940906.	353211.	360133.	0.00907044	0.00924819	0.91299631	0.92047269	40.86	0.34407766
19.5	34770784.	297915.	347134.	0.00856797	0.00998350	0.90471504	0.91195999	43.07	0.36014311
20.5	30599163.	299104.	329084.	0.00977491	0.01075466	0.89696347	0.90285543	45.27	0.37588713
21.5	26255898.	267893.	303562.	0.01020316	0.01156166	0.88819573	0.89314553	47.48	0.39130716
22.5	22893322.	212790.	283980.	0.00929485	0.01240451	0.87913333	0.88281928	49.69	0.40640156
23.5	19246785.	199745.	255659.	0.01037810	0.01328320	0.87096192	0.87186834	51.90	0.42116958
24.5	16219592.	167467.	230281.	0.01032498	0.01419773	0.86192299	0.86028714	54.11	0.43561108
25.5	13403008.	123170.	203030.	0.00918973	0.01514811	0.85302365	0.84807301	56.32	0.44972674
26.5	11415805.	144060.	184186.	0.01261935	0.01613433	0.84518460	0.83522630	58.53	0.46351788
27.5	9739072.	136197.	167087.	0.01398460	0.01715640	0.83451892	0.82175048	60.73	0.47698632
28.5	8100376.	72168.	147543.	0.00890922	0.01821431	0.82284851	0.80765221	62.94	0.49013450
29.5	6697628.	71934.	129318.	0.01074022	0.01930806	0.81551757	0.79294138	65.15	0.50296528
30.5	5446515.	44216.	111314.	0.00811822	0.02043765	0.80675873	0.77763122	67.36	0.51548207
31.5	4504557.	39834.	97312.	0.00884304	0.02160309	0.80020929	0.76173827	69.57	0.52768855

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 2 AVG LIFE 45.279430 FIT INDEX 0.001013 VARIANCE 0.169168

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	3638736.	31395.	82979.	0.00862800	0.02280438	0.79313300	0.74528236	71.78	0.53958879
33.5	3044486.	104427.	73194.	0.03430037	0.02404151	0.78628986	0.72828666	73.99	0.55118715
34.5	2709295.	58991.	68584.	0.02177356	0.02531448	0.75931982	0.71077755	76.19	0.56248831
35.5	2455470.	48917.	65373.	0.01992164	0.02662329	0.74278673	0.69278459	78.40	0.57349715
36.5	2157847.	53553.	60351.	0.02481779	0.02796795	0.72798919	0.67434039	80.61	0.58421877
37.5	1681995.	26268.	49364.	0.01561717	0.02934845	0.70992211	0.65548047	82.82	0.59465844
38.5	1515565.	20048.	46626.	0.01322807	0.03076480	0.69883513	0.63624313	85.03	0.60482156
39.5	1250678.	28172.	40293.	0.02252538	0.03221699	0.68959089	0.61666924	87.24	0.61471365
40.5	981011.	122883.	33065.	0.12526159	0.03370502	0.67405760	0.59680201	89.44	0.62434037
41.5	552203.	240421.	19454.	0.43538518	0.03522890	0.58962407	0.57668679	91.65	0.63370735
42.5	156324.	0.	5751.	0.00000000	0.03678862	0.33291049	0.55637075	93.86	0.64282038
43.5	12416.	0.	477.	0.00000000	0.03838418	0.33291049	0.53590264	96.07	0.65168520
44.5	214.	0.	9.	0.00000000	0.04001559	0.33291049	0.51533245	98.28	0.66030762
45.5	110.	0.	5.	0.00000000	0.04168285	0.33291049	0.49471112	100.49	0.66869339
46.5	110.	0.	5.	0.00000000	0.04338594	0.33291049	0.47409015	102.70	0.67684829
47.5	109.	0.	5.	0.00000000	0.04512488	0.33291049	0.45352130	104.90	0.68477808
TOTAL (EXCEPT AGE 0)	11201230.	11201230.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 2 AVG LIFE 45.279430 FIT INDEX 0.001013 VARIANCE 0.169168

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
48.5					0.04689966		0.43305621	107.11	0.69248844
49.5					0.04871029		0.41274602	109.32	0.69998504
50.5					0.05055676		0.39264104	111.53	0.70727344
51.5					0.05243908		0.37279038	113.74	0.71435917
52.5					0.05435724		0.35324160	115.95	0.72124767
53.5					0.05631124		0.33404036	118.16	0.72794431
54.5					0.05830108		0.31523013	120.36	0.73445437
55.5					0.06032677		0.29685187	122.57	0.74078303
56.5					0.06238831		0.27894376	124.78	0.74693538
57.5					0.06448568		0.26154093	126.99	0.75291641
58.5					0.06661890		0.24467528	129.20	0.75873100
59.5					0.06878797		0.22837529	131.41	0.76438397
60.5					0.07099288		0.21266581	133.61	0.76987996
61.5					0.07323363		0.19756805	135.82	0.77522357
62.5					0.07551023		0.18309943	138.03	0.78041926
63.5					0.07782267		0.16927355	140.24	0.78547141
64.5					0.08017095		0.15610023	142.45	0.79038427
65.5					0.08255508		0.14358553	144.66	0.79516201
66.5					0.08497505		0.13173181	146.87	0.79980867
67.5					0.08743086		0.12053790	149.07	0.80432820
68.5					0.08992252		0.10999916	151.28	0.80872443
69.5					0.09245002		0.10010776	153.49	0.81300114
70.5					0.09501337		0.09085280	155.70	0.81716196
71.5					0.09761256		0.08222057	157.91	0.82121046
72.5					0.10024759		0.07419481	160.12	0.82515010
73.5					0.10291847		0.06675696	162.33	0.82898427
74.5					0.10562519		0.05988643	164.53	0.83271629
75.5					0.10836775		0.05356092	166.74	0.83634937
76.5					0.11114616		0.04775664	168.95	0.83988667
77.5					0.11396041		0.04244867	171.16	0.84333129
78.5					0.11681051		0.03761121	173.37	0.84668626
79.5					0.11969645		0.03321782	175.58	0.84995458
80.5					0.12261823		0.02924177	177.78	0.85313919

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 2 AVG LIFE 45.279430 FIT INDEX 0.001013 VARIANCE 0.169168

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
81.5					0.12557586		0.02565619	179.99	0.85624304
82.5					0.12856933		0.02243439	182.20	0.85926903
83.5					0.13159864		0.01955002	184.41	0.86222012
84.5					0.13466380		0.01697726	186.62	0.86509926
85.5					0.13776480		0.01469104	188.83	0.86790951
86.5					0.14090165		0.01266713	191.04	0.87065399
87.5					0.14407434		0.01088231	193.24	0.87333599
88.5					0.14728287		0.00931445	195.45	0.87595901
89.5					0.15052725		0.00794259	197.66	0.87852679
90.5					0.15380747		0.00674701	199.87	0.88104347
91.5					0.15712353		0.00570927	202.08	0.88351366
92.5					0.16047544		0.00481221	204.29	0.88594259
93.5					0.16386319		0.00403997	206.50	0.88833634
94.5					0.16728679		0.00337797	208.70	0.89070205
95.5					0.17074623		0.00281288	210.91	0.89304825
96.5					0.17424151		0.00233259	213.12	0.89538529
97.5					0.17777264		0.00192616	215.33	0.89772591
98.5					0.18133961		0.00158374	217.54	0.90008594
99.5					0.18494242		0.00129654	219.75	0.90248529
100.5					0.18858108		0.00105676	221.96	0.90494922
101.5					0.19225558		0.00085747	224.16	0.90751002
102.5					0.19596593		0.00069262	226.37	0.91020936
103.5					0.19971212		0.00055689	228.58	0.91310130
104.5					0.20349415		0.00044567	230.79	0.91625645
105.5					0.20731203		0.00035498	233.00	0.91976761
106.5					0.21116575		0.00028139	235.21	0.92375744
107.5					0.21505531		0.00022197	237.41	0.92838891
108.5					0.21898072		0.00017423	239.62	0.93387972
109.5					0.22294197		0.00013608	241.83	0.94052220
110.5					0.22693907		0.00010574	244.04	0.94871096
111.5					0.23097201		0.00008174	246.25	0.95898131
112.5					0.23504079		0.00006286	248.46	0.97206327
113.5							0.00004809	250.67	0.98895746

EQUIVALENT H CURVE IS 2.33

EQUIVALENT L CURVE IS 2.00

EQUIVALENT R CURVE IS 1.50

EQUIVALENT S CURVE IS 0.50

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 3 AVG LIFE 39.940400 FIT INDEX 0.000961 VARIANCE 0.100705

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
					FITTED RANGE AGE 0.5 TO 47.5				
0.0	189416607.	5902.	0.	0.00003116	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	184092944.	167120.	0.	0.00090780	0.00000000	0.99996884	1.00000000	1.25	0.01251865
1.5	176963734.	231695.	112571.	0.00130928	0.00063612	0.99906107	1.00000000	3.76	0.03755596
2.5	172423026.	273981.	324323.	0.00158900	0.00188097	0.99775302	0.99936388	6.26	0.06198860
3.5	165733816.	291827.	485076.	0.00176082	0.00292684	0.99616758	0.99748410	8.76	0.08528178
4.5	157233216.	558820.	596127.	0.00355408	0.00379135	0.99441351	0.99456463	11.27	0.10767069
5.5	146971439.	663190.	660217.	0.00451237	0.00449214	0.99087928	0.99079388	13.77	0.12935961
6.5	137055558.	551583.	691697.	0.00402452	0.00504683	0.98640807	0.98634309	16.27	0.15052475
7.5	126314248.	497672.	691324.	0.00393995	0.00547305	0.98243825	0.98136518	18.78	0.17131665
8.5	115435847.	491154.	668191.	0.00425478	0.00578842	0.97856749	0.97599412	21.28	0.19186242
9.5	105506356.	434518.	634154.	0.00411841	0.00601057	0.97440390	0.97034466	23.79	0.21226753
10.5	102685098.	629640.	632245.	0.00613176	0.00615713	0.97039091	0.96451233	26.29	0.23261718
11.5	79818228.	465315.	498522.	0.00582968	0.00624572	0.96444071	0.95857370	28.79	0.25297788
12.5	71883936.	499780.	452435.	0.00695260	0.00629396	0.95881832	0.95258672	31.30	0.27339887
13.5	65729934.	489121.	415380.	0.00744137	0.00631949	0.95215205	0.94659118	33.80	0.29391330
14.5	59512013.	504198.	377302.	0.00847221	0.00633994	0.94506673	0.94060920	36.30	0.31453971
15.5	54480184.	500072.	347198.	0.00917897	0.00637292	0.93705993	0.93464580	38.81	0.33528338
16.5	49660171.	426939.	319616.	0.00859721	0.00643606	0.92845868	0.92868938	41.31	0.35613764
17.5	44278437.	359827.	289891.	0.00812646	0.00654700	0.92047653	0.92271227	43.82	0.37708527
18.5	38940906.	353211.	261813.	0.00907044	0.00672335	0.91299631	0.91667128	46.32	0.39809998
19.5	34770784.	297915.	242795.	0.00856797	0.00698274	0.90471504	0.91050818	48.82	0.41914786
20.5	30599163.	299104.	224684.	0.00977491	0.00734281	0.89696347	0.90415033	51.33	0.44018876
21.5	26255898.	267893.	205352.	0.01020316	0.00782116	0.88819573	0.89751133	53.83	0.46117766
22.5	22893322.	212790.	193115.	0.00929485	0.00843544	0.87913333	0.89049175	56.33	0.48206619
23.5	19246785.	199745.	177133.	0.01037810	0.00920327	0.87096192	0.88298005	58.84	0.50280381
24.5	16219592.	167467.	164504.	0.01032498	0.01014228	0.86192299	0.87485375	61.34	0.52333907
25.5	13403008.	123170.	151053.	0.00918973	0.01127008	0.85302365	0.86598074	63.85	0.54362066
26.5	11415805.	144060.	143888.	0.01261935	0.01260431	0.84518460	0.85622107	66.35	0.56359859
27.5	9739072.	136197.	137931.	0.01398460	0.01416260	0.83451892	0.84542899	68.85	0.58322494
28.5	8100376.	72168.	129303.	0.00890922	0.01596256	0.82284851	0.83345552	71.36	0.60245469
29.5	6697628.	71934.	120704.	0.01074022	0.01802183	0.81551757	0.82015144	73.86	0.62124627
30.5	5446515.	44216.	110880.	0.00811822	0.02035803	0.80675873	0.80537081	76.36	0.63956221
31.5	4504557.	39834.	103554.	0.00884304	0.02298879	0.80020929	0.78897504	78.87	0.65736936

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 3 AVG LIFE 39.940400 FIT INDEX 0.000961 VARIANCE 0.100705

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	3638736.	31395.	94359.	0.00862800	0.02593174	0.79313300	0.77083746	81.37	0.67463922
33.5	3044486.	104427.	88913.	0.03430037	0.02920450	0.78628986	0.75084830	83.87	0.69134802
34.5	2709295.	58991.	88932.	0.02177356	0.03282469	0.75931982	0.72892015	86.38	0.70747674
35.5	2455470.	48917.	90386.	0.01992164	0.03680995	0.74278673	0.70499357	88.88	0.72301104
36.5	2157847.	53553.	88856.	0.02481779	0.04117790	0.72798919	0.67904279	91.39	0.73794115
37.5	1681995.	26268.	77281.	0.01561717	0.04594617	0.70992211	0.65108123	93.89	0.75226161
38.5	1515565.	20048.	77494.	0.01322807	0.05113238	0.69883513	0.62116654	96.39	0.76597099
39.5	1250678.	28172.	70981.	0.02252538	0.05675416	0.68959089	0.58940482	98.90	0.77907159
40.5	981011.	122883.	61636.	0.12526159	0.06282913	0.67405760	0.55595365	101.40	0.79156908
41.5	552203.	240421.	38309.	0.43538518	0.06937493	0.58962407	0.52102356	103.90	0.80347217
42.5	156324.	0.	11945.	0.00000000	0.07640917	0.33291049	0.48487759	106.41	0.81479221
43.5	12416.	0.	1042.	0.00000000	0.08394949	0.33291049	0.44782849	108.91	0.82554285
44.5	214.	0.	20.	0.00000000	0.09201351	0.33291049	0.41023352	111.42	0.83573965
45.5	110.	0.	11.	0.00000000	0.10061886	0.33291049	0.37248649	113.92	0.84539975
46.5	110.	0.	12.	0.00000000	0.10978316	0.33291049	0.33500732	116.42	0.85454159
47.5	109.	0.	13.	0.00000000	0.11952404	0.33291049	0.29822916	118.93	0.86318452
TOTAL (EXCEPT AGE 0)	11201230.	11353170.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EXPERIENCE BAND 1986 TO 2011 DEGREE 3 AVG LIFE 39.940400 FIT INDEX 0.000961 VARIANCE 0.100705

FITTED RANGE AGE 0.5 TO 47.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
48.5					0.12985913		0.26258360	121.43	0.87134862
49.5					0.14080605		0.22848472	123.93	0.87905436
50.5					0.15238243		0.19631269	126.44	0.88632249
51.5					0.16460590		0.16639809	128.94	0.89317372
52.5					0.17749407		0.13900798	131.45	0.89962867
53.5					0.19106458		0.11433489	133.95	0.90570765
54.5					0.20533506		0.09248954	136.45	0.91143060
55.5					0.22032313		0.07349819	138.96	0.91681700
56.5					0.23604642		0.05730484	141.46	0.92188578
57.5					0.25252254		0.04377824	143.96	0.92665537
58.5					0.26976914		0.03272325	146.47	0.93114365
59.5					0.28780384		0.02389552	148.97	0.93536812
60.5					0.30664425		0.01701830	151.48	0.93934608
61.5					0.32630802		0.01179974	153.98	0.94309503
62.5					0.34681276		0.00794939	156.48	0.94663347
63.5					0.36817610		0.00519244	158.99	0.94998241
64.5					0.39041566		0.00328071	161.49	0.95316835
65.5					0.41354908		0.00199987	163.99	0.95622947
66.5					0.43759399		0.00117282	166.50	0.95922881
67.5					0.46256799		0.00065960	169.00	0.96228353
68.5					0.48848873		0.00035449	171.51	0.96563305
69.5					0.51537383		0.00018133	174.01	0.96980543
70.5					0.54324092		0.00008788	176.51	0.97604533
71.5							0.00004014	179.02	0.98748135

EQUIVALENT H CURVE IS 3.13

EQUIVALENT L CURVE IS 3.00

EQUIVALENT R CURVE IS 2.50

EQUIVALENT S CURVE IS 2.00

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38002 Services Plastic

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = 0.28707948E-03 0.52429169E-03 (X)

QUADRATIC YEST(I) = 0.21101769E-02 0.54283826E-04 (X) 0.17921871E-04 (X^2)

CUBIC YEST(I) = -0.16427859E-02 0.16949471E-02 (X) -0.12152208E-03 (X^2) 0.29377208E-05 (X^3)

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38002 Services Plastic

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	40.56	0.000745	348.88	1.63	1.00	-0.50	0.50
1987	1991	41.78	0.000514	350.63	1.62	1.00	-0.50	0.50
1988	1992	44.60	0.000354	350.87	1.60	1.00	-0.50	0.50
1989	1993	42.97	0.000329	345.60	1.69	1.00	-0.50	0.50
1990	1994	42.23	0.000356	342.13	1.73	1.00	0.00	0.50
1991	1995	41.32	0.000547	335.15	1.82	1.50	0.00	1.00
1992	1996	39.22	0.000584	332.75	1.84	1.50	0.00	1.00
1993	1997	39.02	0.000549	334.44	1.82	1.50	0.00	1.00
1994	1998	43.32	0.000441	340.52	1.75	1.50	0.00	1.00
1995	1999	45.40	0.000413	344.68	1.70	1.00	-0.50	0.50
1996	2000	49.04	0.000418	359.91	1.50	1.00	-0.50	0.50
1997	2001	52.39	0.000335	365.52	1.44	1.00	-0.50	0.50
1998	2002	56.62	0.000318	369.98	1.39	0.50	SC	0.50
1999	2003	55.29	0.000336	369.86	1.38	0.50	SC	0.50
2000	2004	54.16	0.000340	372.02	1.37	0.50	SC	0.50
2001	2005	52.24	0.000287	366.60	1.42	1.00	-0.50	0.50
2002	2006	51.88	0.000267	363.36	1.45	1.00	-0.50	0.50
2003	2007	51.37	0.000248	364.98	1.45	1.00	-0.50	0.50
2004	2008	55.85	0.000201	364.36	1.45	1.00	-0.50	0.50
2005	2009	62.33	0.000199	364.99	1.45	1.00	-0.50	0.50
2006	2010	73.09	0.000159	363.27	1.48	1.00	-0.50	0.50
2007	2011	59.34	0.001700	334.51	1.84	1.50	0.00	1.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38002 Services Plastic

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	59.34	0.001700	334.51	1.84	1.50	0.00	1.00
2006	2011	58.24	0.001561	337.39	1.80	1.50	0.00	1.00
2005	2011	57.23	0.001458	341.60	1.73	1.50	0.00	0.50
2004	2011	56.86	0.001376	345.57	1.69	1.00	-0.50	0.50
2003	2011	56.98	0.001314	346.59	1.67	1.00	-0.50	0.50
2002	2011	57.17	0.001265	348.95	1.65	1.00	-0.50	0.50
2001	2011	56.96	0.001222	350.23	1.63	1.00	-0.50	0.50
2000	2011	56.88	0.001194	352.50	1.60	1.00	-0.50	0.50
1999	2011	56.81	0.001168	352.93	1.59	1.00	-0.50	0.50
1998	2011	57.11	0.001146	352.80	1.59	1.00	-0.50	0.50
1997	2011	56.60	0.001126	352.46	1.59	1.00	-0.50	0.50
1996	2011	55.94	0.001108	353.04	1.59	1.00	-0.50	0.50
1995	2011	55.33	0.001091	351.51	1.60	1.00	-0.50	0.50
1994	2011	55.13	0.001078	352.83	1.60	1.00	-0.50	0.50
1993	2011	54.83	0.001066	351.09	1.61	1.00	-0.50	0.50
1992	2011	54.75	0.001056	351.62	1.61	1.00	-0.50	0.50
1991	2011	54.72	0.001048	351.77	1.61	1.00	-0.50	0.50
1990	2011	54.52	0.001040	351.24	1.60	1.00	-0.50	0.50
1989	2011	54.54	0.001034	352.96	1.60	1.00	-0.50	0.50
1988	2011	54.49	0.001028	351.44	1.60	1.00	-0.50	0.50
1987	2011	54.35	0.001023	352.36	1.60	1.00	-0.50	0.50
1986	2011	54.35	0.001020	352.35	1.60	1.00	-0.50	0.50

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38002 Services Plastic

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	31.83	0.000698	237.21	2.55	3.00	1.00	2.00
1987	1991	34.76	0.000493	254.59	2.33	2.00	0.50	1.50
1988	1992	38.96	0.000348	270.81	2.12	2.00	0.50	1.50
1989	1993	36.63	0.000298	255.25	2.33	2.00	0.50	1.50
1990	1994	38.46	0.000353	276.89	2.14	2.00	0.50	1.50
1991	1995	37.31	0.000549	266.71	2.31	2.00	0.50	1.50
1992	1996	36.69	0.000590	279.36	2.18	2.00	0.50	1.50
1993	1997	38.04	0.000557	308.90	1.96	1.50	0.00	1.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	43.45	0.001603	208.27	3.19	3.00	2.00	2.50

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38002 Services Plastic

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	43.45	0.001603	208.27	3.19	3.00	2.00	2.50
2006	2011	43.53	0.001483	214.80	3.03	3.00	2.00	2.50
2005	2011	43.66	0.001399	221.05	2.84	3.00	1.50	2.50
2004	2011	43.86	0.001329	224.58	2.74	3.00	1.50	2.00
2003	2011	44.20	0.001275	229.65	2.68	3.00	1.50	2.00
2002	2011	44.53	0.001232	230.19	2.63	3.00	1.00	2.00
2001	2011	44.80	0.001196	235.47	2.57	3.00	1.00	2.00
2000	2011	44.91	0.001172	237.12	2.51	2.00	1.00	2.00
1999	2011	45.12	0.001149	238.26	2.48	2.00	1.00	2.00
1998	2011	45.30	0.001128	239.51	2.48	2.00	1.00	2.00
1997	2011	45.32	0.001110	241.63	2.45	2.00	1.00	2.00
1996	2011	45.31	0.001095	243.88	2.41	2.00	1.00	1.50
1995	2011	45.26	0.001080	246.36	2.39	2.00	1.00	1.50
1994	2011	45.32	0.001068	248.26	2.38	2.00	1.00	1.50
1993	2011	45.29	0.001057	248.38	2.37	2.00	1.00	1.50
1992	2011	45.31	0.001048	248.32	2.36	2.00	1.00	1.50
1991	2011	45.35	0.001040	250.30	2.36	2.00	1.00	1.50
1990	2011	45.30	0.001033	250.58	2.34	2.00	1.00	1.50
1989	2011	45.29	0.001026	250.59	2.34	2.00	1.00	1.50
1988	2011	45.30	0.001021	250.56	2.33	2.00	0.50	1.50
1987	2011	45.27	0.001016	250.69	2.33	2.00	0.50	1.50
1986	2011	45.28	0.001013	250.67	2.33	2.00	0.50	1.50

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38002 Services Plastic

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	27.47	0.000665	176.55	3.40	3.00	2.00	3.00
1987	1991	31.76	0.000495	206.24	2.79	3.00	1.50	2.00
1988	1992	32.31	0.000335	190.35	2.99	3.00	1.50	2.50
1989	1993	34.40	0.000300	216.55	2.67	3.00	1.50	2.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	65.04	0.000230	262.15	1.13	0.50	SC	0.50
2003	2007	51.45	0.000223	245.88	1.77	1.50	0.00	1.00
2004	2008	55.78	0.000184	246.50	1.78	1.50	0.00	1.00
2005	2009	60.95	0.000195	248.58	1.82	1.50	0.00	1.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	40.94	0.001506	162.41	4.16	4.00	3.00	4.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38002 Services Plastic

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	40.94	0.001506	162.41	4.16	4.00	3.00	4.00
2006	2011	40.74	0.001400	165.68	3.90	4.00	3.00	3.00
2005	2011	40.43	0.001317	169.42	3.66	4.00	3.00	3.00
2004	2011	40.32	0.001252	169.90	3.52	4.00	2.00	3.00
2003	2011	40.35	0.001202	172.25	3.47	3.00	2.00	3.00
2002	2011	40.37	0.001161	172.16	3.43	3.00	2.00	3.00
2001	2011	40.33	0.001127	172.33	3.37	3.00	2.00	3.00
2000	2011	40.20	0.001101	172.89	3.32	3.00	2.00	3.00
1999	2011	40.19	0.001078	175.40	3.30	3.00	2.00	3.00
1998	2011	40.26	0.001059	175.11	3.31	3.00	2.00	3.00
1997	2011	40.17	0.001042	175.49	3.28	3.00	2.00	2.50
1996	2011	40.08	0.001029	175.89	3.24	3.00	2.00	2.50
1995	2011	40.03	0.001018	176.11	3.21	3.00	2.00	2.50
1994	2011	40.02	0.001007	176.16	3.20	3.00	2.00	2.50
1993	2011	40.01	0.000999	178.70	3.19	3.00	2.00	2.50
1992	2011	40.00	0.000991	178.76	3.18	3.00	2.00	2.50
1991	2011	40.00	0.000983	178.76	3.18	3.00	2.00	2.50
1990	2011	39.94	0.000977	179.00	3.16	3.00	2.00	2.50
1989	2011	39.95	0.000972	178.97	3.15	3.00	2.00	2.50
1988	2011	39.94	0.000967	179.00	3.15	3.00	2.00	2.50
1987	2011	39.94	0.000964	179.04	3.13	3.00	2.00	2.50
1986	2011	39.94	0.000961	179.02	3.13	3.00	2.00	2.50

Peoples Gas System
Net Salvage Analysis
Account - 380.02 - Services Plastic
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	287,525	(135,765)	(47)	800	0	(134,965)	(47)
2009	436,476	(250,016)	(57)	450	0	(249,566)	(57)
2008	369,362	(329,789)	(89)	200	0	(329,589)	(89)
2007	1,000,686	(810,935)	(81)	200	0	(810,735)	(81)
2006	877,404	(646,922)	(74)	84,016	10	(562,906)	(64)
2005	1,066,268	(619,725)	(58)	0	0	(619,725)	(58)
2004	852,872	(485,315)	(57)	0	0	(485,315)	(57)
2003	587,084	(398,674)	(68)	1,200	0	(397,474)	(68)
2002	521,547	(365,973)	(70)	5,810	1	(360,163)	(69)
2001	580,262	(473,654)	(82)	0	0	(473,654)	(82)
2000	674,251	(253,791)	(38)	9,840	1	(243,950)	(36)
1999	387,396	(167,283)	(43)	0	0	(167,283)	(43)
1998	185,300	(178,635)	(96)	0	0	(178,635)	(96)
1997	435,204	(231,345)	(53)	0	0	(231,345)	(53)
1996	423,720	(181,676)	(43)	0	0	(181,676)	(43)
1995	313,763	(111,070)	(35)	0	0	(111,070)	(35)
1994	211,639	(68,989)	(33)	0	0	(68,989)	(33)
1993	190,979	(78,159)	(41)	0	0	(78,159)	(41)
1992	170,656	(52,351)	(31)	0	0	(52,351)	(31)
1991	90,158	(39,374)	(44)	0	0	(39,374)	(44)
1990	288,900	(75,877)	(26)	0	0	(75,877)	(26)
1989	97,768	(41,261)	(42)	0	0	(41,261)	(42)
1988	112,531	(36,705)	(33)	0	0	(36,705)	(33)
1987	131,199	(26,553)	(20)	0	0	(26,553)	(20)
1986	45,611	(16,985)	(37)	0	0	(16,985)	(37)
1985	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	10,338,561	**(6,076,823)**	**(59)**	**102,516**	**1**	**(5,974,307)**	**(58)**

Peoples Gas System
Net Salvage Analysis
Account - 380.02 - Services Plastic
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	2,971,454	(2,173,428)	(73)	85,666	3	(2,087,762)	(70)
2009	3,750,197	(2,657,388)	(71)	84,866	2	(2,572,522)	(69)
2008	4,166,593	(2,892,687)	(69)	84,416	2	(2,808,271)	(67)
2007	4,384,315	(2,961,572)	(68)	85,416	2	(2,876,156)	(66)
2006	3,905,175	(2,516,609)	(64)	91,026	2	(2,425,583)	(62)
2005	3,608,033	(2,343,341)	(65)	7,010	0	(2,336,331)	(65)
2004	3,216,015	(1,977,407)	(61)	16,850	1	(1,960,556)	(61)
2003	2,750,540	(1,659,374)	(60)	16,850	1	(1,642,524)	(60)
2002	2,348,755	(1,439,335)	(61)	15,650	1	(1,423,685)	(61)
2001	2,262,412	(1,304,708)	(58)	9,840	0	(1,294,868)	(57)
2000	2,105,870	(1,012,730)	(48)	9,840	0	(1,002,889)	(48)
1999	1,745,382	(870,009)	(50)	0	0	(870,009)	(50)
1998	1,569,625	(771,715)	(49)	0	0	(771,715)	(49)
1997	1,575,305	(671,239)	(43)	0	0	(671,239)	(43)
1996	1,310,757	(492,245)	(38)	0	0	(492,245)	(38)
1995	977,195	(349,943)	(36)	0	0	(349,943)	(36)
1994	952,332	(314,750)	(33)	0	0	(314,750)	(33)
1993	838,461	(287,023)	(34)	0	0	(287,023)	(34)
1992	760,013	(245,568)	(32)	0	0	(245,568)	(32)
1991	720,556	(219,770)	(31)	0	0	(219,770)	(31)
1990	676,009	(197,381)	(29)	0	0	(197,381)	(29)
1989	387,109	(121,505)	(31)	0	0	(121,505)	(31)
1988	289,341	(80,243)	(28)	0	0	(80,243)	(28)
1987	176,810	(43,539)	(25)	0	0	(43,539)	(25)
1986	45,611	(16,985)	(37)	0	0	(16,985)	(37)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100. Meters

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 16.0 YRS CURVE: IOWA L1 O.C. SALVAGE %: 5.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	2372220.	0.029226	69331.	2302889.
2010	1.50	6525034.	0.085512	557971.	5967063.
2009	2.50	2073133.	0.138268	286648.	1786485.
2008	3.50	4076249.	0.186852	761657.	3314592.
2007	4.50	3202824.	0.230875	739451.	2463373.
2006	5.50	3651632.	0.270233	986792.	2664840.
2005	6.50	3277681.	0.305107	1000043.	2277638.
2004	7.50	2758794.	0.335942	926794.	1832000.
2003	8.50	2889985.	0.363446	1050354.	1839631.
2002	9.50	2716949.	0.388652	1055947.	1661002.
2001	10.50	0.	0.412701	0.	0.
2000	11.50	5507431.	0.435927	2400838.	3106593.
1999	12.50	1498867.	0.458371	687036.	811831.
1998	13.50	554616.	0.480078	266259.	288357.
1997	14.50	644108.	0.501070	322743.	321365.
1996	15.50	3822142.	0.521386	1992810.	1829332.
1995	16.50	86636.	0.541070	46876.	39760.
1994	17.50	60331.	0.560145	33794.	26537.
1993	18.50	27638.	0.578650	15993.	11645.
1992	19.50	53862.	0.596601	32134.	21728.
1991	20.50	276902.	0.614024	170024.	106878.
1990	21.50	62892.	0.630963	39683.	23209.
1989	22.50	112782.	0.647429	73018.	39764.
1988	23.50	80280.	0.663456	53262.	27018.
1987	24.50	54468.	0.679050	36987.	17481.
1986	25.50	72837.	0.694260	50568.	22269.
1985	26.50	30619.	0.709073	21711.	8908.
1984	27.50	15364.	0.723537	11116.	4248.
1983	28.50	11975.	0.737639	8833.	3142.
1982	29.50	5390.	0.751469	4050.	1340.
1981	30.50	0.	0.764981	0.	0.
1980	31.50	40210.	0.778180	31291.	8919.
1979	32.50	5784.	0.791154	4576.	1208.
1978	33.50	1113626.	0.803957	895308.	218318.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100. Meters

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 16.0 YRS CURVE: IOWA L1 O.C. SALVAGE %: 5.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
SUBTOTAL :				0.306898	14633899.	33049362.
NET SALVAGE: 5.0%					-731695.	731695.
TOTAL :			47683261.	0.291553	13902204.	33781057.

WEIGHTED AGE: 7.9 YEARS
REMAINING LIFE: 11.1 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100. Meters

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 16.0 YRS CURVE: IOWA L1 O.C. SALVAGE %: 5.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	2372220.	0.062497	148256.
2010	1.50 - 2.50	6525034.	0.062497	407794.
2009	2.50 - 3.50	2073133.	0.062497	129564.
2008	3.50 - 4.50	4076249.	0.062497	254753.
2007	4.50 - 5.50	3202824.	0.062497	200167.
2006	5.50 - 6.50	3651632.	0.062497	228216.
2005	6.50 - 7.50	3277681.	0.062497	204845.
2004	7.50 - 8.50	2758794.	0.062497	172416.
2003	8.50 - 9.50	2889985.	0.062497	180615.
2002	9.50 - 10.50	2716949.	0.062497	169801.
2001	10.50 - 11.50	0.	0.062497	0.
2000	11.50 - 12.50	5507431.	0.062497	344197.
1999	12.50 - 13.50	1498867.	0.062497	93675.
1998	13.50 - 14.50	554616.	0.062497	34662.
1997	14.50 - 15.50	644108.	0.062497	40255.
1996	15.50 - 16.50	3822142.	0.062497	238872.
1995	16.50 - 17.50	86636.	0.062497	5414.
1994	17.50 - 18.50	60331.	0.062497	3771.
1993	18.50 - 19.50	27638.	0.062497	1727.
1992	19.50 - 20.50	53862.	0.062497	3366.
1991	20.50 - 21.50	276902.	0.062497	17306.
1990	21.50 - 22.50	62892.	0.062497	3931.
1989	22.50 - 23.50	112782.	0.062497	7049.
1988	23.50 - 24.50	80280.	0.062497	5017.
1987	24.50 - 25.50	54468.	0.062497	3404.
1986	25.50 - 26.50	72837.	0.062497	4552.
1985	26.50 - 27.50	30619.	0.062497	1914.
1984	27.50 - 28.50	15364.	0.062497	960.
1983	28.50 - 29.50	11975.	0.062497	748.
1982	29.50 - 30.50	5390.	0.062497	337.
1981	30.50 - 31.50	0.	0.062497	0.
1980	31.50 - 32.50	40210.	0.062497	2513.
1979	32.50 - 33.50	5784.	0.062497	361.
1978	33.50 - 34.50	1113626.	0.062497	69598.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100. Meters

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 16.0 YRS CURVE: IOWA L1 O.C. SALVAGE %: 5.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
SUBTOTAL :			47683261.	0.062497	2980056.
NET SALVAGE:	5.0 %				-149003.
TOTAL :			47683261.	0.059372	2831054.

MONTHLY RATE: 0.004948

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100. Meters

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 16.0 YRS CURVE: IOWA L1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	2372220.	15.5	36848042.
2010	1.50	6525034.	14.6	95477725.
2009	2.50	2073133.	13.8	28585178.
2008	3.50	4076249.	13.0	53036098.
2007	4.50	3202824.	12.3	39415915.
2006	5.50	3651632.	11.7	42639547.
2005	6.50	3277681.	11.1	36444013.
2004	7.50	2758794.	10.6	29313453.
2003	8.50	2889985.	10.2	29435554.
2002	9.50	2716949.	9.8	26577338.
2001	10.50	0.	9.4	0.
2000	11.50	5507431.	9.0	49707950.
1999	12.50	1498867.	8.7	12989931.
1998	13.50	554616.	8.3	4613944.
1997	14.50	644108.	8.0	5142095.
1996	15.50	3822142.	7.7	29270752.
1995	16.50	86636.	7.3	636189.
1994	17.50	60331.	7.0	424611.
1993	18.50	27638.	6.7	186333.
1992	19.50	53862.	6.5	347663.
1991	20.50	276902.	6.2	1710125.
1990	21.50	62892.	5.9	371370.
1989	22.50	112782.	5.6	636249.
1988	23.50	80280.	5.4	432306.
1987	24.50	54468.	5.1	279718.
1986	25.50	72837.	4.9	356325.
1985	26.50	30619.	4.7	142533.
1984	27.50	15364.	4.4	67964.
1983	28.50	11975.	4.2	50271.
1982	29.50	5390.	4.0	21434.
1981	30.50	0.	3.8	0.
1980	31.50	40210.	3.5	142717.
1979	32.50	5784.	3.3	19328.
1978	33.50	1113626.	3.1	3493266.
TOTAL:		47683261.	11.1	528815937.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100. Meters

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 16.0 YEARS CURVE: IOWA L1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0313	99.79500	0.20500	49.94875	0.062497	3.12164	2.91664	0.029226
1.50	0.0938	99.13962	0.65537	99.46731	0.062497	6.21640	8.47767	0.085512
2.50	0.1563	98.05812	1.08150	98.59887	0.062497	6.16212	13.55829	0.138268
3.50	0.2188	96.44250	1.61562	97.25031	0.062497	6.07784	18.02051	0.186852
4.50	0.2813	94.21638	2.22612	95.32944	0.062497	5.95780	21.75218	0.230875
5.50	0.3438	91.35175	2.86462	92.78406	0.062497	5.79872	24.68627	0.270233
6.50	0.4063	87.87662	3.47513	89.61419	0.062497	5.60061	26.81176	0.305107
7.50	0.4688	83.87500	4.00162	85.87581	0.062497	5.36697	28.17711	0.335942
8.50	0.5313	79.48000	4.39500	81.67750	0.062497	5.10459	28.88670	0.363446
9.50	0.5938	74.86763	4.61238	77.17381	0.062497	4.82312	29.09745	0.388652
10.50	0.6563	70.21400	4.65363	72.54081	0.062497	4.53358	28.97740	0.412701
11.50	0.7188	65.58225	4.63175	67.89813	0.062497	4.24342	28.58907	0.435927
12.50	0.7813	60.99700	4.58525	63.28963	0.062497	3.95541	27.95923	0.458371
13.50	0.8438	56.48288	4.51413	58.73994	0.062497	3.67106	27.11617	0.480078
14.50	0.9063	52.06112	4.42175	54.27200	0.062497	3.39183	26.08625	0.501070
15.50	0.9688	47.75412	4.30700	49.90762	0.062497	3.11907	24.89832	0.521386
16.50	1.0313	43.58325	4.17088	45.66869	0.062497	2.85415	23.58160	0.541070
17.50	1.0938	39.56613	4.01712	41.57469	0.062497	2.59829	22.16277	0.560145
18.50	1.1563	35.72038	3.84575	37.64325	0.062497	2.35259	20.66960	0.578650
19.50	1.2188	32.05950	3.66087	33.88994	0.062497	2.11802	19.12674	0.596601
20.50	1.2813	28.59600	3.46350	30.32775	0.062497	1.89539	17.55863	0.614024
21.50	1.3438	25.34137	3.25462	26.96869	0.062497	1.68546	15.98947	0.630963
22.50	1.4063	22.30225	3.03912	23.82181	0.062497	1.48879	14.43913	0.647429
23.50	1.4688	19.48437	2.81788	20.89331	0.062497	1.30577	12.92702	0.663456
24.50	1.5313	16.88963	2.59475	18.18700	0.062497	1.13663	11.46891	0.679050
25.50	1.5938	14.51962	2.37000	15.70463	0.062497	0.98149	10.08039	0.694260
26.50	1.6563	12.37062	2.14900	13.44512	0.062497	0.84028	8.77167	0.709073
27.50	1.7188	10.43963	1.93100	11.40512	0.062497	0.71279	7.55346	0.723537
28.50	1.7813	8.71887	1.72075	9.57925	0.062497	0.59867	6.43138	0.737639
29.50	1.8438	7.20225	1.51662	7.96056	0.062497	0.49751	5.41227	0.751469
30.50	1.9063	5.87725	1.32500	6.53975	0.062497	0.40871	4.49598	0.764981
31.50	1.9688	4.73237	1.14488	5.30481	0.062497	0.33153	3.68264	0.778180
32.50	2.0313	3.75625	0.97612	4.24431	0.062497	0.26526	2.97177	0.791154
33.50	2.0938	2.93500	0.82125	3.34563	0.062497	0.20909	2.35961	0.803957
34.50	2.1563	2.25313	0.68187	2.59406	0.062497	0.16212	1.83986	0.816582
35.50	2.2188	1.69512	0.55800	1.97412	0.062497	0.12338	1.40524	0.828987
36.50	2.2813	1.24812	0.44700	1.47162	0.062497	0.09197	1.05021	0.841429
37.50	2.3438	0.89662	0.35150	1.07237	0.062497	0.06702	0.76573	0.854013
38.50	2.4063	0.62587	0.27075	0.76125	0.062497	0.04758	0.54255	0.866874

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100. Meters

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 16.0 YEARS CURVE: IOWA L1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	2.4688	0.42250	0.20337	0.52419	0.062497	0.03276	0.37194	0.880331
40.50	2.5313	0.27462	0.14788	0.34856	0.062497	0.02178	0.24585	0.895218
41.50	2.5938	0.17075	0.10387	0.22269	0.062497	0.01392	0.15589	0.912980
42.50	2.6563	0.10037	0.07038	0.13556	0.062497	0.00847	0.09399	0.936375
43.50	2.7188	0.05562	0.04475	0.07800	0.062497	0.00487	0.05411	0.972825
44.50	2.7813	0.02763	0.02800	0.04163	0.062497	0.00260	0.02871	1.000000
45.50	2.8438	0.01262	0.01500	0.02013	0.062497	0.00126	0.01497	1.000000
46.50	2.9063	0.00538	0.00725	0.00900	0.062497	0.00056	0.00829	1.000000
47.50	2.9688	0.00200	0.00337	0.00369	0.062497	0.00023	0.00514	1.000000
48.50	3.0313	0.00000	0.00200	0.00100	0.062497	0.00006	0.00000	1.000000
		1600.07913	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100 Meters

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	2372220.	0.	0.	0.	0.	0.	0.	0.	0
2010	6525034.	0.	0.	0.	0.	0.	0.	0.	0
2009	2073133.	0.	37230.	0.	0.	0.	0.	0.	0
2008	4076249.	0.	96787.	91309.	0.	0.	0.	0.	0
2007	3202824.	0.	75441.	161468.	65849.	0.	0.	0.	0
2006	3651632.	0.	57212.	163967.	71249.	37630.	0.	0.	0
2005	3277681.	0.	60121.	78070.	89843.	77008.	31267.	0.	0
2004	2758794.	0.	10594.	15312.	14065.	14155.	20475.	14333.	0
2003	2889985.	0.	9618.	12799.	12582.	13378.	19669.	24225.	9473
2002	2716949.	0.	24558.	38909.	36616.	48969.	42015.	46380.	23523
2001	0.	0.	0.	0.	0.	0.	0.	0.	0
2000	5507431.	0.	213916.	161567.	165956.	211896.	150085.	172155.	125812
1999	1498867.	0.	241932.	217766.	68041.	81584.	52159.	72394.	54255
1998	554616.	0.	27459.	67013.	81559.	21983.	14301.	19205.	16917
1997	644108.	0.	18808.	21978.	41630.	62360.	17610.	22647.	21519
1996	3822142.	0.	119282.	151320.	165276.	236482.	188536.	329676.	222531
1995	86636.	0.	9246.	2468.	6418.	1111.	3986.	2972.	746
1994	60331.	0.	6115.	2356.	1894.	1280.	1578.	1837.	933
1993	27638.	0.	7056.	2931.	3874.	2397.	12216.	25833.	1767
1992	53862.	0.	2683.	2500.	2564.	5595.	3367.	3476.	4257
1991	276902.	0.	7441.	37113.	11068.	14080.	9531.	27076.	18055
1990	62892.	0.	5416.	5095.	3402.	3128.	3049.	3606.	3515
1989	112782.	0.	1664.	3283.	1968.	1282.	2760.	1780.	1320
1988	80280.	0.	2681.	4376.	4478.	2305.	2436.	2699.	1072
1987	54468.	20261.	1006.	3169.	7419.	1588.	1911.	2036.	1441
1986	72837.	61691.	2841.	2832.	4014.	2243.	3859.	3506.	1454
1985	30619.	76396.	7501.	3376.	3755.	2430.	2681.	2875.	1570
1984	15364.	75658.	10595.	3504.	3558.	1725.	2367.	4629.	1045
1983	11975.	20056.	21417.	4807.	5578.	3043.	4168.	6242.	2510
1982	5390.	26719.	12362.	3540.	3495.	1350.	2506.	3519.	941
1981	0.	20359.	2631.	1190.	1754.	564.	1441.	1691.	1316
1980	40210.	15540.	26566.	3000.	2871.	1579.	3247.	4742.	1137
1979	5784.	31347.	5430.	1663.	1215.	824.	774.	1783.	508
1978	1113626.	298944.	45695.	75885.	141911.	116223.	92487.	579361.	486457
1977	0.	4074.	11434.	1527.	2144.	1210.	1966.	2530.	1633
1976	0.	9899.	7838.	650.	778.	522.	524.	453.	254
TOTAL	47683261.	660944.	1190576.	1346743.	1026824.	969924.	692971.	1383661.	1005961

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100 Meters

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	2372220.	0.	0.	0.	0.	0.	0.	0.	0
2010	6525034.	0.	0.	0.	0.	0.	0.	0.	0
2009	2073133.	0.	0.	0.	0.	0.	0.	0.	0
2008	4076249.	0.	0.	0.	0.	0.	0.	0.	0
2007	3202824.	0.	0.	0.	0.	0.	0.	0.	0
2006	3651632.	0.	0.	0.	0.	0.	0.	0.	0
2005	3277681.	0.	0.	0.	0.	0.	0.	0.	0
2004	2758794.	0.	0.	0.	0.	0.	0.	0.	0
2003	2889985.	0.	0.	0.	0.	0.	0.	0.	0
2002	2716949.	20490.	0.	0.	0.	0.	0.	0.	0
2001	0.	0.	0.	0.	0.	0.	0.	0.	0
2000	5507431.	138311.	107772.	66063.	721.	0.	0.	0.	0
1999	1498867.	58609.	72878.	91344.	37088.	0.	0.	0.	0
1998	554616.	17734.	36040.	31627.	26286.	0.	209.	0.	0
1997	644108.	22378.	33516.	42904.	23804.	0.	1698.	1045.	0
1996	3822142.	213778.	199556.	300801.	140825.	0.	342.	0.	0
1995	86636.	1797.	4486.	13360.	3971.	0.	3174.	6441.	2136
1994	60331.	2247.	7848.	11702.	2883.	0.	2960.	3283.	2225
1993	27638.	3379.	3946.	3296.	0.	0.	1702.	4587.	899
1992	53862.	8308.	15449.	10031.	30725.	0.	4574.	1619.	1743
1991	276902.	18866.	33123.	39270.	23803.	0.	2134.	4228.	3425
1990	62892.	4295.	7181.	7392.	7615.	0.	3046.	2295.	1452
1989	112782.	2228.	1884.	2644.	0.	0.	4702.	1063.	1799
1988	80280.	3311.	3120.	4057.	0.	0.	7236.	3978.	1254
1987	54468.	2281.	1824.	2449.	0.	0.	11305.	6225.	2026
1986	72837.	2682.	3830.	6857.	2568.	0.	737.	1372.	809
1985	30619.	3878.	4330.	3188.	2311.	0.	2016.	5489.	6548
1984	15364.	3298.	4074.	2919.	2172.	0.	2897.	7464.	9821
1983	11975.	5456.	7157.	4600.	4944.	0.	2828.	3745.	5419
1982	5390.	2590.	3369.	5045.	2119.	0.	4567.	2845.	4440
1981	0.	1566.	3007.	2568.	0.	0.	3187.	6065.	3734
1980	40210.	3892.	5751.	4432.	4621.	0.	5586.	5654.	2662
1979	5784.	1144.	1699.	1654.	0.	0.	12958.	19465.	10622
1978	1113626.	1143183.	1615294.	2226241.	949635.	190609.	2591.	5987.	17207
1977	0.	3757.	4450.	3956.	2317.	0.	6102.	7129.	10485
1976	0.	194.	316.	519.	0.	0.	1261.	1508.	1133
TOTAL	47683261.	1689652.	2181900.	2888919.	1268408.	190609.	87812.	101487.	89839

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100 Meters

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	2372220.	0.	0.	0.	0.	0.	0.	0.	0
2010	6525034.	0.	0.	0.	0.	0.	0.	0.	0
2009	2073133.	0.	0.	0.	0.	0.	0.	0.	0
2008	4076249.	0.	0.	0.	0.	0.	0.	0.	0
2007	3202824.	0.	0.	0.	0.	0.	0.	0.	0
2006	3651632.	0.	0.	0.	0.	0.	0.	0.	0
2005	3277681.	0.	0.	0.	0.	0.	0.	0.	0
2004	2758794.	0.	0.	0.	0.	0.	0.	0.	0
2003	2889985.	0.	0.	0.	0.	0.	0.	0.	0
2002	2716949.	0.	0.	0.	0.	0.	0.	0.	0
2001	0.	0.	0.	0.	0.	0.	0.	0.	0
2000	5507431.	0.	0.	0.	0.	0.	0.	0.	0
1999	1498867.	0.	0.	0.	0.	0.	0.	0.	0
1998	554616.	0.	0.	0.	0.	0.	0.	0.	0
1997	644108.	0.	0.	0.	0.	0.	0.	0.	0
1996	3822142.	0.	0.	0.	0.	0.	0.	0.	0
1995	86636.	355.	0.	0.	0.	0.	0.	0.	0
1994	60331.	1987.	53.	0.	0.	0.	0.	0.	0
1993	27638.	1082.	7550.	0.	0.	0.	0.	0.	0
1992	53862.	761.	117.	2301.	1102.	0.	0.	0.	0
1991	276902.	4708.	0.	1478.	1341.	0.	0.	0.	0
1990	62892.	2787.	1749.	40.	1042.	1932.	0.	0.	0
1989	112782.	1320.	299.	0.	87.	355.	37.	0.	0
1988	80280.	3504.	2387.	1833.	462.	1083.	1035.	54.	463
1987	54468.	3125.	55.	0.	0.	695.	55.	53.	0
1986	72837.	285.	3452.	593.	0.	2631.	883.	545.	1221
1985	30619.	4466.	473.	150.	540.	2987.	49.	0.	270
1984	15364.	6249.	1857.	317.	317.	823.	46.	3056.	91
1983	11975.	6951.	2179.	758.	384.	1206.	137.	136.	92
1982	5390.	13222.	3543.	724.	98.	1253.	80.	0.	0
1981	0.	8352.	2745.	397.	981.	674.	127.	104.	149
1980	40210.	6403.	7691.	218.	2258.	1653.	171.	131.	87
1979	5784.	12033.	3724.	2233.	5284.	15790.	464.	236.	248
1978	1113626.	11605.	1136.	1278.	5204.	6555.	962.	1719.	2780
1977	0.	4322.	956.	218.	1587.	2877.	258.	180.	1282
1976	0.	716.	1056.	602.	1254.	911.	52.	26.	269
TOTAL	47683261.	94233.	41022.	13140.	21941.	41425.	4356.	6240.	6952

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100 Meters

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
2011	2372220.	0.	0.	0.	0.	0.
2010	6525034.	0.	0.	0.	0.	0.
2009	2073133.	0.	0.	0.	0.	0.
2008	4076249.	0.	0.	0.	0.	0.
2007	3202824.	0.	0.	0.	0.	0.
2006	3651632.	0.	0.	0.	0.	0.
2005	3277681.	0.	0.	0.	0.	0.
2004	2758794.	0.	0.	0.	0.	0.
2003	2889985.	0.	0.	0.	0.	0.
2002	2716949.	0.	0.	0.	0.	0.
2001	0.	0.	0.	0.	0.	0.
2000	5507431.	0.	0.	0.	0.	0.
1999	1498867.	0.	0.	0.	0.	0.
1998	554616.	0.	0.	0.	0.	0.
1997	644108.	0.	0.	0.	0.	0.
1996	3822142.	0.	0.	0.	0.	0.
1995	86636.	0.	0.	0.	0.	0.
1994	60331.	0.	0.	0.	0.	0.
1993	27638.	0.	0.	0.	0.	0.
1992	53862.	0.	0.	0.	0.	0.
1991	276902.	0.	0.	0.	0.	0.
1990	62892.	0.	0.	0.	0.	0.
1989	112782.	0.	0.	0.	0.	0.
1988	80280.	0.	0.	0.	0.	0.
1987	54468.	0.	0.	0.	0.	0.
1986	72837.	0.	0.	0.	0.	0.
1985	30619.	0.	50.	0.	0.	0.
1984	15364.	0.	0.	368.	0.	0.
1983	11975.	230.	0.	0.	0.	0.
1982	5390.	0.	0.	0.	0.	785.
1981	0.	470.	0.	846.	0.	0.
1980	40210.	120.	0.	15.	0.	0.
1979	5784.	0.	0.	35.	0.	0.
1978	1113626.	260.	74.	223.	0.	145.
1977	0.	965.	0.	558.	257.	33.
1976	0.	548.	90.	0.	0.	90.
TOTAL	47683261.	2593.	214.	2045.	257.	1053.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38100 Meters

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	54994441.	3948.	0.00007179	0.99992821	1.00000000
0.5	52722775.	430971.	0.00817429	0.99182571	0.99992821
1.5	45832688.	715528.	0.01561174	0.98438826	0.99175451
2.5	43194264.	686272.	0.01588804	0.98411196	0.97627150
3.5	38568660.	627884.	0.01627964	0.98372036	0.96076046
4.5	43871229.	737069.	0.01680074	0.98319926	0.94511963
5.5	39560735.	555250.	0.01403538	0.98596462	0.92924092
6.5	35759267.	595991.	0.01666676	0.98333324	0.91619867
7.5	32404482.	589759.	0.01819992	0.98180008	0.90092861
8.5	28924738.	653834.	0.02260466	0.97739534	0.88453178
9.5	25553956.	860120.	0.03365898	0.96634102	0.86453724
10.5	24693835.	678494.	0.02747625	0.97252375	0.83543780
11.5	18507910.	322580.	0.01742930	0.98257070	0.81248310
12.5	16686463.	265016.	0.01588210	0.98411790	0.79832208
13.5	15866831.	207855.	0.01309997	0.98690003	0.78564306
14.5	15014868.	73141.	0.00487124	0.99512876	0.77535116
15.5	11119585.	70997.	0.00638486	0.99361514	0.77157424
16.5	10961952.	78153.	0.00712948	0.99287052	0.76664784
17.5	10823468.	112713.	0.01041376	0.98958624	0.76118204
18.5	10683117.	69442.	0.00650016	0.99349984	0.75325527
19.5	10559813.	49411.	0.00467915	0.99532085	0.74835899
20.5	10233500.	233770.	0.02284360	0.97715640	0.74485731
21.5	9936838.	981711.	0.09879511	0.90120489	0.72784208
22.5	8842345.	2252470.	0.25473672	0.74526328	0.65593484
23.5	6509595.	1658807.	0.25482492	0.74517508	0.48884415
24.5	4796320.	1234467.	0.25737795	0.74262205	0.36427448
25.5	3489016.	591417.	0.16950825	0.83049175	0.27051826
26.5	2866980.	685910.	0.23924478	0.76075522	0.22466318
27.5	2165706.	132574.	0.06121514	0.93878486	0.17091369
28.5	2021157.	152207.	0.07530687	0.92469313	0.16045118
29.5	1863560.	192233.	0.10315364	0.89684636	0.14836811
30.5	1671327.	99521.	0.05954610	0.94045390	0.13306340
31.5	1531596.	79347.	0.05180674	0.94819326	0.12513999
32.5	1446465.	311028.	0.21502629	0.78497371	0.11865690
33.5	21811.	11912.	0.54614644	0.45385356	0.09314254
34.5	9899.	9899.	1.00000000	0.00000000	0.04227308
TOTAL		17011701.			21.64647030

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38100 Meters

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 21.528170 FIT INDEX 0.007176 VARIANCE 0.217655

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
				FITTED RANGE AGE 0.5 TO 34.5					
0.0	54994441.	3948.	0.	0.00007179	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	52722775.	430971.	0.	0.00817429	0.00000000	0.99992821	1.00000000	2.32	0.02322530
1.5	45832688.	715528.	0.	0.01561174	0.00000000	0.99175451	1.00000000	6.97	0.06967607
2.5	43194264.	686272.	170601.	0.01588804	0.00394963	0.97627150	1.00000000	11.61	0.11612684
3.5	38568660.	627884.	306153.	0.01627964	0.00793787	0.96076046	0.99605037	16.26	0.15916489
4.5	43871229.	737069.	523213.	0.01680074	0.01192612	0.94511963	0.98814385	20.90	0.19907363
5.5	39560735.	555250.	629584.	0.01403538	0.01591436	0.92924092	0.97635913	25.55	0.23613750
6.5	35759267.	595991.	711702.	0.01666676	0.01990260	0.91619867	0.96082100	30.19	0.27061086
7.5	32404482.	589759.	774170.	0.01819992	0.02389085	0.90092861	0.94169816	34.84	0.30272174
8.5	28924738.	653834.	806395.	0.02260466	0.02787909	0.88453178	0.91920019	39.48	0.33267467
9.5	25553956.	860120.	814336.	0.03365898	0.03186733	0.86453724	0.89357373	44.13	0.36065353
10.5	24693835.	678494.	885412.	0.02747625	0.03585557	0.83543780	0.86509792	48.77	0.38682388
11.5	18507910.	322580.	737426.	0.01742930	0.03984382	0.81248310	0.83407934	53.42	0.41133498
12.5	16686463.	265016.	731402.	0.01588210	0.04383206	0.79832208	0.80084643	58.06	0.43432160
13.5	15866831.	207855.	758757.	0.01309997	0.04782030	0.78564306	0.76574369	62.71	0.45590555
14.5	15014868.	73141.	777898.	0.00487124	0.05180854	0.77535116	0.72912559	67.35	0.47619725
15.5	11119585.	70997.	620437.	0.00638486	0.05579679	0.77157424	0.69135066	72.00	0.49529684
16.5	10961952.	78153.	655361.	0.00712948	0.05978503	0.76664784	0.65277551	76.64	0.51329512
17.5	10823468.	112713.	690248.	0.01041376	0.06377327	0.76118204	0.61374931	81.29	0.53027481
18.5	10683117.	69442.	723904.	0.00650016	0.06776151	0.75325527	0.57460851	85.93	0.54631122
19.5	10559813.	49411.	757664.	0.00467915	0.07174976	0.74835899	0.53567217	90.58	0.56147294
20.5	10233500.	233770.	775065.	0.02284360	0.07573800	0.74485731	0.49723782	95.22	0.57582267
21.5	9936838.	981711.	792227.	0.09879511	0.07972624	0.72784208	0.45957802	99.87	0.58941771
22.5	8842345.	2252470.	740232.	0.25473672	0.08371448	0.65593484	0.42293759	104.51	0.60231052
23.5	6509595.	1658807.	570909.	0.25482492	0.08770273	0.48884415	0.38753159	109.16	0.61454918
24.5	4796320.	1234467.	439779.	0.25737795	0.09169097	0.36427448	0.35354401	113.80	0.62617778
25.5	3489016.	591417.	333826.	0.16950825	0.09567921	0.27051826	0.32112722	118.45	0.63723689
26.5	2866980.	685910.	285745.	0.23924478	0.09966746	0.22466318	0.29040202	123.09	0.64776379
27.5	2165706.	132574.	224488.	0.06121514	0.10365570	0.17091369	0.26145839	127.74	0.65779281
28.5	2021157.	152207.	217565.	0.07530687	0.10764394	0.16045118	0.23435674	132.38	0.66735566
29.5	1863560.	192233.	208033.	0.10315364	0.11163218	0.14836811	0.20912966	137.03	0.67648156
30.5	1671327.	99521.	193240.	0.05954610	0.11562043	0.13306340	0.18578406	141.67	0.68519756
31.5	1531596.	79347.	183192.	0.05180674	0.11960867	0.12513999	0.16430362	146.32	0.69352867

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38100 Meters

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 21.528170 FIT INDEX 0.007176 VARIANCE 0.217655

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
				FITTED RANGE AGE 0.5 TO 34.5					
32.5	1446465.	311028.	178779.	0.21502629	0.12359691	0.11865690	0.14465149	150.97	0.70149807
33.5	21811.	11912.	2783.	0.54614644	0.12758515	0.09314254	0.12677301	155.61	0.70912731
34.5	9899.	9899.	1302.	1.00000000	0.13157340	0.04227308	0.11059866	160.26	0.71643635
TOTAL (EXCEPT AGE 0)		17007750.	17221830.						

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38100 Meters

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 21.528170 FIT INDEX 0.007176 VARIANCE 0.217655

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 34.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
35.5					0.13556164		0.09604681	164.90	0.72344386
36.5					0.13954988		0.08302655	169.55	0.73016717
37.5					0.14353812		0.07144021	174.19	0.73662254
38.5					0.14752637		0.06118581	178.84	0.74282521
39.5					0.15151461		0.05215929	183.48	0.74878943
40.5					0.15550285		0.04425640	188.13	0.75452872
41.5					0.15949109		0.03737440	192.77	0.76005590
42.5					0.16347934		0.03141352	197.42	0.76538313
43.5					0.16746758		0.02627806	202.06	0.77052213
44.5					0.17145582		0.02187733	206.71	0.77548429
45.5					0.17544407		0.01812634	211.35	0.78028080
46.5					0.17943231		0.01494618	216.00	0.78492280
47.5					0.18342055		0.01226435	220.64	0.78942163
48.5					0.18740879		0.01001482	225.29	0.79378907
49.5					0.19139704		0.00813795	229.93	0.79803768
50.5					0.19538528		0.00658037	234.58	0.80218126
51.5					0.19937352		0.00529466	239.22	0.80623538
52.5					0.20336176		0.00423905	243.87	0.81021814
53.5					0.20735001		0.00337699	248.51	0.81415121
54.5					0.21133825		0.00267677	253.16	0.81806119
55.5					0.21532649		0.00211107	257.80	0.82198142
56.5					0.21931473		0.00165650	262.45	0.82595456
57.5					0.22330298		0.00129320	267.09	0.83003606
58.5					0.22729122		0.00100443	271.74	0.83429902
59.5					0.23127946		0.00077613	276.38	0.83884079
60.5					0.23526770		0.00059663	281.03	0.84379239
61.5					0.23925595		0.00045626	285.67	0.84933158
62.5					0.24324419		0.00034710	290.32	0.85570119
63.5					0.24723243		0.00026267	294.96	0.86323531
64.5					0.25122068		0.00019773	299.61	0.87239622
65.5					0.25520892		0.00014805	304.25	0.88382732
66.5					0.25919716		0.00011027	308.90	0.89842893
67.5					0.26318540		0.00008169	313.54	0.91746758

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38100 Meters

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 21.528170 FIT INDEX 0.007176 VARIANCE 0.217655

FITTED RANGE AGE 0.5 TO 34.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
68.5					0.26717365		0.00006019	318.19	0.94273427
69.5							0.00004411	322.83	0.97677461

EQUIVALENT H CURVE IS 1.94

EQUIVALENT L CURVE IS 1.50

EQUIVALENT R CURVE IS 1.00

EQUIVALENT S CURVE IS 0.00

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38100 Meters

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 21.248580 FIT INDEX 0.006580 VARIANCE 0.184785

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 34.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	54994441.	3948.	577191.	0.00007179	0.01049545	1.00000000	1.00000000	0.00	0.00000000
0.5	52722775.	430971.	1017117.	0.00817429	0.01929180	0.99992821	0.98950455	2.35	0.01304940
1.5	45832688.	715528.	749541.	0.01561174	0.01635384	0.99175451	0.97041522	7.06	0.04115962
2.5	43194264.	686272.	605994.	0.01588804	0.01402951	0.97627150	0.95454521	11.77	0.07267138
3.5	38568660.	627884.	475120.	0.01627964	0.01231882	0.96076046	0.94115340	16.47	0.10687313
4.5	43871229.	737069.	492312.	0.01680074	0.01122175	0.94511963	0.92955951	21.18	0.14308905
5.5	39560735.	555250.	424816.	0.01403538	0.01073832	0.92924092	0.91912822	25.88	0.18069291
6.5	35759267.	595991.	388651.	0.01666676	0.01086853	0.91619867	0.90925832	30.59	0.21911678
7.5	32404482.	589759.	376293.	0.01819992	0.01161237	0.90092861	0.89937602	35.30	0.25785698
8.5	28924738.	653834.	375149.	0.02260466	0.01296984	0.88453178	0.88893214	40.00	0.29647612
9.5	25553956.	860120.	381800.	0.03365898	0.01494094	0.86453724	0.87740284	44.71	0.33460281
10.5	24693835.	678494.	432776.	0.02747625	0.01752568	0.83543780	0.86429361	49.42	0.37192926
11.5	18507910.	322580.	383559.	0.01742930	0.02072405	0.81248310	0.84914628	54.12	0.40820729
12.5	16686463.	265016.	409420.	0.01588210	0.02453605	0.79832208	0.83154854	58.83	0.44324334
13.5	15866831.	207855.	459530.	0.01309997	0.02896169	0.78564306	0.81114562	63.53	0.47689298
14.5	15014868.	73141.	510520.	0.00487124	0.03400096	0.77535116	0.78765348	68.24	0.50905486
15.5	11119585.	70997.	440934.	0.00638486	0.03965386	0.77157424	0.76087251	72.95	0.53966495
16.5	10961952.	78153.	503377.	0.00712948	0.04592040	0.76664784	0.73070098	77.65	0.56869074
17.5	10823468.	112713.	571485.	0.01041376	0.05280056	0.76118204	0.69714690	82.36	0.59612611
18.5	10683117.	69442.	644132.	0.00650016	0.06029437	0.75325527	0.66033715	87.06	0.62198629
19.5	10559813.	49411.	722310.	0.00467915	0.06840180	0.74835899	0.62052254	91.77	0.64630356
20.5	10233500.	233770.	789237.	0.02284360	0.07712287	0.74485731	0.57807768	96.48	0.66912341
21.5	9936838.	981711.	859115.	0.09879511	0.08645758	0.72784208	0.53349466	101.18	0.69050116
22.5	8842345.	2252470.	852454.	0.25473672	0.09640591	0.65593484	0.48737001	105.89	0.71049916
23.5	6509595.	1658807.	696318.	0.25482492	0.10696788	0.48884415	0.44038466	110.60	0.72918438
24.5	4796320.	1234467.	566654.	0.25737795	0.11814348	0.36427448	0.39327765	115.30	0.74662645
25.5	3489016.	591417.	453337.	0.16950825	0.12993272	0.27051826	0.34681445	120.01	0.76289613
26.5	2866980.	685910.	408073.	0.23924478	0.14233559	0.22466318	0.30175191	124.71	0.77806390
27.5	2165706.	132574.	336447.	0.06121514	0.15535209	0.17091369	0.25880187	129.42	0.79219910
28.5	2021157.	152207.	341540.	0.07530687	0.16898223	0.16045118	0.21859646	134.13	0.80536917
29.5	1863560.	192233.	341453.	0.10315364	0.18322599	0.14836811	0.18165754	138.83	0.81763908
30.5	1671327.	99521.	331062.	0.05954610	0.19808340	0.13306340	0.14837316	143.54	0.82907091
31.5	1531596.	79347.	327079.	0.05180674	0.21355443	0.12513999	0.11898290	148.25	0.83972372

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38100 Meters

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 21.248580 FIT INDEX 0.006580 VARIANCE 0.184785

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
				FITTED RANGE AGE 0.5 TO 34.5					
32.5	1446465.	311028.	332165.	0.21502629	0.22963910	0.11865690	0.09357357	152.95	0.84965336
33.5	21811.	11912.	5373.	0.54614644	0.24633740	0.09314254	0.07208542	157.66	0.85891248
34.5	9899.	9899.	2610.	1.00000000	0.26364934	0.04227308	0.05432809	162.36	0.86755065
TOTAL (EXCEPT AGE 0)		17007750.	17007750.						

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38100 Meters

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 21.248580 FIT INDEX 0.006580 VARIANCE 0.184785

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 34.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
35.5					0.28157491		0.04000452	167.07	0.87561455
36.5					0.30011411		0.02874025	171.78	0.88314829
37.5					0.31926694		0.02011490	176.48	0.89019392
38.5					0.33903341		0.01369288	181.19	0.89679248
39.5					0.35941351		0.00905053	185.89	0.90298551
40.5					0.38040725		0.00579765	190.60	0.90881812
41.5					0.40201461		0.00359218	195.31	0.91434493
42.5					0.42423562		0.00214807	200.01	0.91964201
43.5					0.44707025		0.00123678	204.72	0.92483262
44.5					0.47051852		0.00068385	209.43	0.93014408
45.5					0.49458042		0.00036209	214.13	0.93603984
46.5					0.51925595		0.00018301	218.84	0.94353969
47.5					0.54454512		0.00008798	223.54	0.95503441
48.5							0.00004007	228.25	0.97646901

EQUIVALENT H CURVE IS 2.19

EQUIVALENT L CURVE IS 2.00

EQUIVALENT R CURVE IS 1.50

EQUIVALENT S CURVE IS 0.50

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38100 Meters

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = -0.60209746E-02 0.39882426E-02 (X)

QUADRATIC YEST(I) = 0.20990898E-01 -0.35515957E-02 (X) 0.30681663E-03 (X^2)

CUBIC YEST(I) = 0.23380519E-01 -0.47293926E-02 (X) 0.42008174E-03 (X^2) -0.27518828E-05 (X^3)

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38100 Meters

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	1988	361.63	0.000149	110.20	4.23	4.00	3.00	4.00
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	60.97	0.001633	384.60	1.22	0.50	SC	0.50
1996	2000	31.68	0.004903	361.38	1.45	1.00	-0.50	0.50
1997	2001	19.85	0.011224	345.07	1.66	1.00	-0.50	0.50
1998	2002	16.71	0.011904	332.14	1.78	1.50	0.00	1.00
1999	2003	15.04	0.010406	322.40	1.89	1.50	0.00	1.00
2000	2004	14.16	0.007606	321.32	1.94	1.50	0.00	1.00
2001	2005	13.83	0.006268	314.60	2.04	2.00	0.00	1.00
2002	2006	15.39	0.006748	315.20	2.00	1.50	0.00	1.00
2003	2007	17.09	0.005772	330.62	1.80	1.50	0.00	1.00
2004	2008	19.11	0.003835	358.51	1.49	1.00	-0.50	0.50
2005	2009	19.94	0.003664	383.69	1.19	0.50	SC	0.50
2006	2010	22.46	0.002566	416.32	0.88	0.00	SC	0.50
2007	2011	21.65	0.004143	357.93	1.51	1.00	-0.50	0.50

PGS - 2011 CASE

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38100 Meters

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	21.65	0.004143	357.93	1.51	1.00	-0.50	0.50
2006	2011	21.97	0.003646	361.84	1.45	1.00	-0.50	0.50
2005	2011	20.61	0.004163	351.70	1.56	1.00	-0.50	0.50
2004	2011	20.20	0.004136	349.07	1.61	1.00	-0.50	0.50
2003	2011	19.05	0.005227	338.63	1.75	1.50	0.00	0.50
2002	2011	17.96	0.006085	331.28	1.86	1.50	0.00	1.00
2001	2011	16.94	0.006793	321.73	1.92	1.50	0.00	1.00
2000	2011	17.03	0.006614	325.87	1.89	1.50	0.00	1.00
1999	2011	17.59	0.006928	326.96	1.85	1.50	0.00	1.00
1998	2011	18.12	0.007238	333.90	1.81	1.50	0.00	1.00
1997	2011	18.57	0.007419	336.49	1.78	1.50	0.00	1.00
1996	2011	18.98	0.007551	334.48	1.77	1.50	0.00	1.00
1995	2011	19.35	0.007641	338.50	1.76	1.50	0.00	1.00
1994	2011	19.70	0.007703	337.52	1.76	1.50	0.00	1.00
1993	2011	20.03	0.007741	336.99	1.77	1.50	0.00	1.00
1992	2011	20.32	0.007740	337.17	1.78	1.50	0.00	1.00
1991	2011	20.56	0.007716	333.22	1.80	1.50	0.00	1.00
1990	2011	20.77	0.007677	334.54	1.81	1.50	0.00	1.00
1989	2011	20.96	0.007607	331.58	1.83	1.50	0.00	1.00
1988	2011	21.12	0.007509	329.15	1.86	1.50	0.00	1.00
1987	2011	21.24	0.007439	327.15	1.88	1.50	0.00	1.00
1986	2011	21.35	0.007374	325.55	1.90	1.50	0.00	1.00
1985	2011	21.43	0.007308	324.33	1.92	1.50	0.00	1.00
1984	2011	21.49	0.007244	323.43	1.93	1.50	0.00	1.00
1983	2011	21.53	0.007176	322.83	1.94	1.50	0.00	1.00

PGS - 2011 CASE

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38100 Meters

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	41.00	0.000113	215.84	3.22	3.00	2.00	2.50
1984	1988	40.96	0.000142	213.61	3.23	3.00	2.00	2.50
1985	1989	49.13	0.000104	214.74	3.18	3.00	2.00	2.50
1986	1990	57.29	0.000105	213.82	3.17	3.00	2.00	2.50
1987	1991	41.15	0.000299	210.22	3.08	3.00	2.00	2.50
1988	1992	46.69	0.000298	213.13	2.95	3.00	1.50	2.50
1989	1993	86.14	0.000223	203.73	3.08	3.00	2.00	2.50
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	27.49	0.004556	187.33	3.41	3.00	2.00	3.00
1997	2001	22.76	0.009751	173.53	3.05	3.00	2.00	2.50
1998	2002	20.92	0.010220	184.07	2.56	3.00	1.00	2.00
1999	2003	18.77	0.009166	205.16	2.23	2.00	0.50	1.50
2000	2004	15.68	0.007006	251.84	1.86	1.50	0.00	1.00
2001	2005	14.74	0.005905	268.02	1.93	1.50	0.00	1.00
2002	2006	16.00	0.006680	278.07	1.96	1.50	0.00	1.00
2003	2007	17.28	0.005828	309.61	1.80	1.50	0.00	1.00
2004	2008	19.11	0.003894	353.22	1.50	1.00	-0.50	0.50
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	21.57	0.004053	289.78	1.65	1.00	-0.50	0.50

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38100 Meters

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	21.57	0.004053	289.78	1.65	1.00	-0.50	0.50
2006	2011	21.85	0.003592	295.20	1.60	1.00	-0.50	0.50
2005	2011	20.65	0.004111	293.02	1.66	1.00	-0.50	0.50
2004	2011	20.29	0.004075	293.31	1.69	1.00	-0.50	0.50
2003	2011	19.25	0.005171	288.25	1.78	1.50	0.00	1.00
2002	2011	18.26	0.006049	287.55	1.86	1.50	0.00	1.00
2001	2011	17.28	0.006796	286.42	1.91	1.50	0.00	1.00
2000	2011	17.37	0.006595	285.02	1.88	1.50	0.00	1.00
1999	2011	17.95	0.006876	281.30	1.86	1.50	0.00	1.00
1998	2011	18.52	0.007146	272.68	1.86	1.50	0.00	1.00
1997	2011	19.01	0.007282	265.69	1.88	1.50	0.00	1.00
1996	2011	19.40	0.007358	260.28	1.89	1.50	0.00	1.00
1995	2011	19.73	0.007392	256.01	1.92	1.50	0.00	1.00
1994	2011	20.02	0.007392	247.25	1.95	1.50	0.00	1.00
1993	2011	20.27	0.007369	244.15	1.98	1.50	0.00	1.00
1992	2011	20.48	0.007315	241.75	2.01	1.50	0.00	1.00
1991	2011	20.62	0.007246	240.04	2.03	2.00	0.00	1.00
1990	2011	20.76	0.007167	238.49	2.06	2.00	0.50	1.00
1989	2011	20.86	0.007062	237.27	2.08	2.00	0.50	1.00
1988	2011	20.95	0.006936	231.51	2.10	2.00	0.50	1.50
1987	2011	21.02	0.006849	230.70	2.12	2.00	0.50	1.50
1986	2011	21.09	0.006775	230.00	2.14	2.00	0.50	1.50
1985	2011	21.14	0.006706	229.39	2.16	2.00	0.50	1.50
1984	2011	21.20	0.006643	228.81	2.18	2.00	0.50	1.50
1983	2011	21.25	0.006580	228.25	2.19	2.00	0.50	1.50

PGS - 2011 CASE

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38100 Meters

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	27.41	0.000113	173.27	4.32	4.00	3.00	4.00
1984	1988	25.09	0.000136	165.39	4.66	4.00	3.00	4.00
1985	1989	26.99	0.000095	164.91	4.63	4.00	3.00	4.00
1986	1990	29.83	0.000100	165.93	4.52	4.00	3.00	4.00
1987	1991	25.49	0.000278	158.91	4.34	4.00	3.00	4.00
1988	1992	28.07	0.000285	165.68	4.06	4.00	3.00	3.00
1989	1993	33.91	0.000220	169.57	3.74	4.00	3.00	3.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	35.13	0.001014	166.52	3.03	3.00	2.00	2.50
1992	1996	31.57	0.001407	169.49	2.92	3.00	1.50	2.50
1993	1997	30.20	0.001431	167.24	2.68	3.00	1.50	2.00
1994	1998	32.77	0.001398	169.35	2.36	2.00	1.00	1.50
1995	1999	27.75	0.001471	171.18	2.77	3.00	1.50	2.00
1996	2000	22.32	0.003219	150.12	2.78	3.00	1.50	2.00
1997	2001	19.60	0.005666	145.39	2.22	2.00	0.50	1.50
1998	2002	19.72	0.005630	149.58	2.25	2.00	0.50	1.50
1999	2003	19.80	0.006417	154.01	2.31	2.00	0.50	1.50
2000	2004	16.24	0.006839	218.56	1.90	1.50	0.00	1.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	21.68	0.004115	265.17	1.68	1.00	-0.50	0.50

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38100 Meters

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	21.68	0.004115	265.17	1.68	1.00	-0.50	0.50
2006	2011	22.12	0.003627	250.93	1.69	1.00	-0.50	0.50
2005	2011	20.65	0.004177	282.94	1.66	1.00	-0.50	0.50
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1983	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 381.00 - Meters
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	1,277,694	(24,821)	(2)	96,854	8	72,033	6
2009	1,384,946	(19,102)	(1)	85,461	6	66,359	5
2008	1,053,002	(36,591)	(3)	73,413	7	36,822	3
2007	986,293	(36,159)	(4)	119,444	12	83,285	8
2006	716,585	(30,732)	(4)	282,594	39	251,862	35
2005	1,409,305	(19,104)	(1)	0	0	(19,104)	(1)
2004	1,015,209	(16,120)	(2)	0	0	(16,120)	(2)
2003	1,708,007	0	0	79,653	5	79,653	5
2002	2,201,985	0	0	56,424	3	56,424	3
2001	2,931,914	(335,983)	(11)	234,946	8	(101,036)	(3)
2000	1,287,523	(320,124)	(25)	21,308	2	(298,816)	(23)
1999	190,609	(89,539)	(47)	2,294	1	(87,244)	(46)
1998	233,145	440	0	8,712	4	9,152	4
1997	419,216	(438)	(0)	7,214	2	6,776	2
1996	409,136	0	0	6,050	1	6,050	1
1995	544,009	0	0	12,193	2	12,193	2
1994	275,148	0	0	8,383	3	8,383	3
1993	102,400	0	0	435	0	435	0
1992	94,844	0	0	1,167	1	1,167	1
1991	248,848	(134)	(0)	5,198	2	5,064	2
1990	77,318	(19)	(0)	460	1	441	1
1989	69,842	0	0	3,620	5	3,620	5
1988	87,915	0	0	1,624	2	1,624	2
1987	59,375	(26)	(0)	1,232	2	1,206	2
1986	43,032	(13)	(0)	0	0	(13)	(0)
1985	74,256	(558)	(1)	2,111	3	1,553	2
1984	45,579	(2,116)	(5)	5,184	11	3,068	7
1983	81,635	(2,194)	(3)	1,523	2	(671)	(1)
1982	0	0	0	0	0	0	0
	19,028,771	**(933,333)**	**(5)**	**1,117,498**	**6**	**184,166**	**1**

Peoples Gas System
Net Salvage Analysis
Account - 381.00 - Meters
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	5,418,520	(147,405)	(3)	657,766	12	510,360	9
2009	5,550,131	(141,689)	(3)	560,912	10	419,223	8
2008	5,180,394	(138,706)	(3)	475,451	9	336,745	7
2007	5,835,400	(102,115)	(2)	481,691	8	379,576	7
2006	7,051,092	(65,956)	(1)	418,671	6	352,715	5
2005	9,266,421	(371,207)	(4)	371,024	4	(183)	(0)
2004	9,144,638	(672,226)	(7)	392,332	4	(279,894)	(3)
2003	8,320,038	(745,646)	(9)	394,627	5	(351,019)	(4)
2002	6,845,175	(745,206)	(11)	323,686	5	(421,520)	(6)
2001	5,062,407	(745,643)	(15)	274,475	5	(471,168)	(9)
2000	2,539,628	(409,660)	(16)	45,579	2	(364,081)	(14)
1999	1,796,114	(89,536)	(5)	36,464	2	(53,072)	(3)
1998	1,880,653	2	0	42,552	2	42,555	2
1997	1,749,909	(438)	(0)	34,275	2	33,837	2
1996	1,425,536	0	0	28,228	2	28,228	2
1995	1,265,249	(134)	(0)	27,376	2	27,242	2
1994	798,558	(153)	(0)	15,643	2	15,490	2
1993	593,253	(153)	(0)	10,880	2	10,727	2
1992	578,767	(153)	(0)	12,068	2	11,916	2
1991	543,299	(179)	(0)	12,133	2	11,954	2
1990	337,483	(58)	(0)	6,936	2	6,877	2
1989	334,421	(597)	(0)	8,586	3	7,989	2
1988	310,158	(2,713)	(1)	10,151	3	7,438	2
1987	303,878	(4,907)	(2)	10,050	3	5,143	2
1986	244,503	(4,881)	(2)	8,818	4	3,936	2

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200. Meter Istallations

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 27.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: -20.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	2152463.	0.018500	39821.	2112642.
2010	1.50	2026573.	0.055492	112458.	1914115.
2009	2.50	2065841.	0.092452	190992.	1874849.
2008	3.50	2253108.	0.129364	291472.	1961636.
2007	4.50	2188030.	0.166223	363702.	1824328.
2006	5.50	2648150.	0.202985	537534.	2110616.
2005	6.50	2972282.	0.239625	712235.	2260047.
2004	7.50	2306982.	0.276102	636962.	1670020.
2003	8.50	2445988.	0.312359	764026.	1681962.
2002	9.50	2033383.	0.348343	708315.	1325068.
2001	10.50	860.	0.383976	330.	530.
2000	11.50	3781193.	0.419180	1585001.	2196192.
1999	12.50	3541714.	0.453872	1607483.	1934231.
1998	13.50	1012997.	0.487962	494304.	518693.
1997	14.50	729600.	0.521346	380374.	349226.
1996	15.50	440370.	0.553947	243941.	196429.
1995	16.50	783863.	0.585685	459097.	324766.
1994	17.50	947784.	0.616478	584288.	363496.
1993	18.50	609973.	0.646268	394206.	215767.
1992	19.50	441859.	0.675041	298273.	143586.
1991	20.50	358588.	0.702773	252006.	106582.
1990	21.50	413363.	0.729468	301535.	111828.
1989	22.50	321294.	0.755210	242644.	78650.
1988	23.50	289685.	0.779987	225950.	63735.
1987	24.50	285312.	0.803408	229222.	56090.
1986	25.50	255599.	0.824981	210864.	44735.
1985	26.50	516290.	0.844383	435946.	80344.
1984	27.50	365158.	0.861533	314596.	50562.
1983	28.50	423132.	0.876623	370927.	52205.
1982	29.50	337738.	0.889981	300580.	37158.
1981	30.50	364327.	0.901953	328606.	35721.
1980	31.50	623001.	0.912961	568776.	54225.
1979	32.50	307148.	0.923279	283583.	23565.
1978	33.50	511625.	0.933085	477390.	34235.
1977	34.50	81248.	0.942608	76585.	4663.
1976	35.50	25980.	0.951772	24727.	1253.
1975	36.50	169824.	0.960353	163091.	6733.
1974	37.50	22162.	0.968179	21457.	705.
1973	38.50	165670.	0.975201	161562.	4108.
1972	39.50	39592.	0.981011	38840.	752.
1971	40.50	135633.	0.998652	135450.	183.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200. Meter Istallations

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 27.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: -20.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	13361.	1.000000	13361.	0.
1969	42.50	16558.	1.000000	16558.	0.
1968	43.50	38532.	1.000000	38532.	0.
1967	44.50	388069.	1.000000	388069.	0.
1966	45.50	21350.	1.000000	21350.	0.
1965	46.50	12351.	1.000000	12351.	0.
1964	47.50	33060.	1.000000	33060.	0.
1963	48.50	28801.	1.000000	28801.	0.
1962	49.50	19672.	1.000000	19672.	0.
1961	50.50	30063.	1.000000	30063.	0.
1960	51.50	41113.	1.000000	41113.	0.
1959	52.50	29995.	1.000000	29995.	0.
1958	53.50	35294.	1.000000	35294.	0.
1957	54.50	28578.	1.000000	28578.	0.
1956	55.50	22092.	1.000000	22092.	0.
1955	56.50	13956.	1.000000	13956.	0.
1954	57.50	10810.	1.000000	10810.	0.
1953	58.50	11579.	1.000000	11579.	0.
SUBTOTAL :			0.387868	16364386.	25826230.
NET SALVAGE: -20.0%				3272877.	-3272877.
TOTAL :		42190616.	0.465441	19637263.	22553353.

WEIGHTED AGE: 11.8 YEARS
REMAINING LIFE: 16.5 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200. Meter Istallations

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 27.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: -20.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	2152463.	0.037037	79720.
2010	1.50 - 2.50	2026573.	0.037037	75058.
2009	2.50 - 3.50	2065841.	0.037037	76512.
2008	3.50 - 4.50	2253108.	0.037037	83448.
2007	4.50 - 5.50	2188030.	0.037037	81038.
2006	5.50 - 6.50	2648150.	0.037037	98079.
2005	6.50 - 7.50	2972282.	0.037037	110084.
2004	7.50 - 8.50	2306982.	0.037037	85443.
2003	8.50 - 9.50	2445988.	0.037037	90592.
2002	9.50 - 10.50	2033383.	0.037037	75310.
2001	10.50 - 11.50	860.	0.037037	32.
2000	11.50 - 12.50	3781193.	0.037037	140044.
1999	12.50 - 13.50	3541714.	0.037037	131174.
1998	13.50 - 14.50	1012997.	0.037037	37518.
1997	14.50 - 15.50	729600.	0.037037	27022.
1996	15.50 - 16.50	440370.	0.037037	16310.
1995	16.50 - 17.50	783863.	0.037037	29032.
1994	17.50 - 18.50	947784.	0.037037	35103.
1993	18.50 - 19.50	609973.	0.037037	22591.
1992	19.50 - 20.50	441859.	0.037037	16365.
1991	20.50 - 21.50	358588.	0.037037	13281.
1990	21.50 - 22.50	413363.	0.037037	15310.
1989	22.50 - 23.50	321294.	0.037037	11900.
1988	23.50 - 24.50	289685.	0.037037	10729.
1987	24.50 - 25.50	285312.	0.037037	10567.
1986	25.50 - 26.50	255599.	0.037037	9467.
1985	26.50 - 27.50	516290.	0.037037	19122.
1984	27.50 - 28.50	365158.	0.037037	13524.
1983	28.50 - 29.50	423132.	0.037037	15671.
1982	29.50 - 30.50	337738.	0.037037	12509.
1981	30.50 - 31.50	364327.	0.037037	13494.
1980	31.50 - 32.50	623001.	0.037037	23074.
1979	32.50 - 33.50	307148.	0.037037	11376.
1978	33.50 - 34.50	511625.	0.037037	18949.
1977	34.50 - 35.50	81248.	0.037037	3009.
1976	35.50 - 36.50	25980.	0.037037	962.
1975	36.50 - 37.50	169824.	0.037037	6290.
1974	37.50 - 38.50	22162.	0.037037	821.
1973	38.50 - 39.50	165670.	0.037037	6136.
1972	39.50 - 40.50	39592.	0.037037	1466.
1971	40.50 - 41.50	135633.	0.037037	5023.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200. Meter Istallations

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 27.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: -20.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	13361.	0.037037	495.
1969	42.50 - 43.50	16558.	0.037037	613.
1968	43.50 - 44.50	38532.	0.037037	1427.
1967	44.50 - 45.50	388069.	0.037037	14373.
1966	45.50 - 46.50	21350.	0.037037	791.
1965	46.50 - 47.50	12351.	0.037037	457.
1964	47.50 - 48.50	33060.	0.037037	1224.
1963	48.50 - 49.50	28801.	0.037037	1067.
1962	49.50 - 50.50	19672.	0.037037	729.
1961	50.50 - 51.50	30063.	0.037037	1113.
1960	51.50 - 52.50	41113.	0.037037	1523.
1959	52.50 - 53.50	29995.	0.037037	1111.
1958	53.50 - 54.50	35294.	0.037037	1307.
1957	54.50 - 55.50	28578.	0.037037	1058.
1956	55.50 - 56.50	22092.	0.037037	818.
1955	56.50 - 57.50	13956.	0.037037	517.
1954	57.50 - 58.50	10810.	0.037037	400.
1953	58.50 - 59.50	11579.	0.037037	429.
SUBTOTAL :		42190616.	0.037037	1562608.
NET SALVAGE: -20.0 %				312522.
TOTAL :		42190616.	0.044444	1875130.

MONTHLY RATE: 0.003704

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200. Meter Istallations

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 27.0 YRS CURVE: IOWA R4

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	2152463.	26.5	57041608.
2010	1.50	2026573.	25.5	51681349.
2009	2.50	2065841.	24.5	50621162.
2008	3.50	2253108.	23.5	52964419.
2007	4.50	2188030.	22.5	49257086.
2006	5.50	2648150.	21.5	56986895.
2005	6.50	2972282.	20.5	61021567.
2004	7.50	2306982.	19.5	45090755.
2003	8.50	2445988.	18.6	45413181.
2002	9.50	2033383.	17.6	35777012.
2001	10.50	860.	16.6	14304.
2000	11.50	3781193.	15.7	59297463.
1999	12.50	3541714.	14.7	52224474.
1998	13.50	1012997.	13.8	14004772.
1997	14.50	729600.	12.9	9429149.
1996	15.50	440370.	12.0	5303596.
1995	16.50	783863.	11.2	8768720.
1994	17.50	947784.	10.4	9814431.
1993	18.50	609973.	9.6	5825731.
1992	19.50	441859.	8.8	3876841.
1991	20.50	358588.	8.0	2877727.
1990	21.50	413363.	7.3	3019366.
1989	22.50	321294.	6.6	2123549.
1988	23.50	289685.	5.9	1720842.
1987	24.50	285312.	5.3	1514437.
1986	25.50	255599.	4.7	1207840.
1985	26.50	516290.	4.2	2169289.
1984	27.50	365158.	3.7	1365192.
1983	28.50	423132.	3.3	1409537.
1982	29.50	337738.	3.0	1003258.
1981	30.50	364327.	2.6	964478.
1980	31.50	623001.	2.4	1464085.
1979	32.50	307148.	2.1	636253.
1978	33.50	511625.	1.8	924360.
1977	34.50	81248.	1.5	125901.
1976	35.50	25980.	1.3	33830.
1975	36.50	169824.	1.1	181794.
1974	37.50	22162.	0.9	19041.
1973	38.50	165670.	0.7	110929.
1972	39.50	39592.	0.5	20299.
1971	40.50	135633.	0.0	4938.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200. Meter Istallations

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 27.0 YRS CURVE: IOWA R4

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	13361.	0.0	0.
1969	42.50	16558.	0.0	0.
1968	43.50	38532.	0.0	0.
1967	44.50	388069.	0.0	0.
1966	45.50	21350.	0.0	0.
1965	46.50	12351.	0.0	0.
1964	47.50	33060.	0.0	0.
1963	48.50	28801.	0.0	0.
1962	49.50	19672.	0.0	0.
1961	50.50	30063.	0.0	0.
1960	51.50	41113.	0.0	0.
1959	52.50	29995.	0.0	0.
1958	53.50	35294.	0.0	0.
1957	54.50	28578.	0.0	0.
1956	55.50	22092.	0.0	0.
1955	56.50	13956.	0.0	0.
1954	57.50	10810.	0.0	0.
1953	58.50	11579.	0.0	0.
TOTAL:		42190616.	16.5	697311462.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200. Meter Istallations

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 27.0 YEARS CURVE: IOWA R4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0185	99.99815	0.00185	49.99954	0.037037	1.85183	1.84997	0.018500
1.50	0.0556	99.99344	0.00470	99.99580	0.037037	3.70353	5.54880	0.055492
2.50	0.0926	99.98522	0.00822	99.98933	0.037037	3.70329	9.24387	0.092452
3.50	0.1296	99.97119	0.01403	99.97820	0.037037	3.70288	12.93271	0.129364
4.50	0.1667	99.95033	0.02085	99.96076	0.037037	3.70223	16.61409	0.166223
5.50	0.2037	99.91656	0.03378	99.93344	0.037037	3.70122	20.28154	0.202985
6.50	0.2407	99.86574	0.05082	99.89115	0.037037	3.69965	23.93038	0.239625
7.50	0.2778	99.79033	0.07540	99.82804	0.037037	3.69732	27.55229	0.276102
8.50	0.3148	99.68015	0.11019	99.73524	0.037037	3.69388	31.13598	0.312359
9.50	0.3519	99.52355	0.15659	99.60185	0.037037	3.68894	34.66833	0.348343
10.50	0.3889	99.30344	0.22011	99.41350	0.037037	3.68196	38.13018	0.383976
11.50	0.4259	98.99970	0.30374	99.15157	0.037037	3.67226	41.49871	0.419180
12.50	0.4630	98.58848	0.41122	98.79409	0.037037	3.65902	44.74651	0.453872
13.50	0.5000	98.04100	0.54748	98.31474	0.037037	3.64127	47.84029	0.487962
14.50	0.5370	97.32059	0.72041	97.68080	0.037037	3.61779	50.73768	0.521346
15.50	0.5741	96.39130	0.92929	96.85595	0.037037	3.58724	53.39562	0.553947
16.50	0.6111	95.21145	1.17985	95.80137	0.037037	3.54818	55.76395	0.585685
17.50	0.6481	93.73274	1.47871	94.47209	0.037037	3.49895	57.78420	0.616478
18.50	0.6852	91.90796	1.82478	92.82035	0.037037	3.43777	59.39720	0.646268
19.50	0.7222	89.69667	2.21130	90.80232	0.037037	3.36303	60.54893	0.675041
20.50	0.7593	87.05337	2.64329	88.37502	0.037037	3.27313	61.17877	0.702773
21.50	0.7963	83.93870	3.11467	85.49604	0.037037	3.16651	61.23061	0.729468
22.50	0.8333	80.33800	3.60070	82.13835	0.037037	3.04215	60.67205	0.755210
23.50	0.8704	76.20874	4.12926	78.27337	0.037037	2.89900	59.44179	0.779987
24.50	0.9074	71.38518	4.82355	73.79696	0.037037	2.73321	57.35145	0.803408
25.50	0.9444	65.68145	5.70374	68.53332	0.037037	2.53826	54.18597	0.824981
26.50	0.9815	59.02959	6.65185	62.35552	0.037037	2.30945	49.84356	0.844383
27.50	1.0185	51.55178	7.47781	55.29068	0.037037	2.04779	44.41354	0.861533
28.50	1.0556	43.57833	7.97344	47.56506	0.037037	1.76166	38.20176	0.876623
29.50	1.0926	35.55056	8.02778	39.56445	0.037037	1.46534	31.63933	0.889981
30.50	1.1296	27.90608	7.64448	31.72832	0.037037	1.17512	25.16996	0.901953
31.50	1.1667	21.02500	6.88108	24.46554	0.037037	0.90613	19.19501	0.912961
32.50	1.2037	15.12641	5.89859	18.07570	0.037037	0.66947	13.96589	0.923279
33.50	1.2407	10.30511	4.82130	12.71576	0.037037	0.47095	9.61554	0.933085
34.50	1.2778	6.57000	3.73511	8.43755	0.037037	0.31250	6.19293	0.942608
35.50	1.3148	3.82641	2.74359	5.19820	0.037037	0.19253	3.64187	0.951772
36.50	1.3519	1.95444	1.87196	2.89043	0.037037	0.10705	1.87696	0.960353
37.50	1.3889	0.82033	1.13411	1.38739	0.037037	0.05138	0.79423	0.968179
38.50	1.4259	0.25193	0.56841	0.53613	0.037037	0.01986	0.24568	0.975201

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200. Meter Istallations

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 27.0 YEARS CURVE: IOWA R4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.4630	0.04219	0.20974	0.14706	0.037037	0.00545	0.04138	0.981011
40.50	1.5000	0.00100	0.04119	0.02159	0.037037	0.00080	0.00100	0.998652
41.50	1.5370	0.00000	0.00100	0.00050	0.037037	0.00002	0.00000	1.000000
		2700.01258	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
2011	2152463.	0.	0.	0.	0.	0.	0.	0.	0
2010	2026573.	0.	0.	0.	0.	0.	0.	0.	0
2009	2065841.	0.	7443.	2184.	0.	0.	0.	0.	0
2008	2253108.	0.	10387.	20094.	0.	0.	0.	0.	0
2007	2188030.	0.	24756.	23865.	18401.	0.	0.	0.	0
2006	2648150.	0.	20030.	37737.	25972.	112569.	0.	0.	0
2005	2972282.	0.	15887.	24191.	26324.	101607.	0.	0.	0
2004	2306982.	0.	6517.	13167.	17714.	54047.	0.	34062.	0
2003	2445988.	0.	29611.	18963.	26518.	71838.	0.	155546.	101574
2002	2033383.	0.	14549.	24452.	21997.	107368.	0.	175427.	127322
2001	860.	0.	0.	0.	0.	0.	0.	0.	0
2000	3781193.	0.	41566.	36413.	51043.	232506.	0.	235877.	190438
1999	3541714.	34913.	23109.	37532.	80929.	120972.	0.	22131.	23462
1998	1012997.	0.	12590.	13958.	12273.	37548.	0.	20292.	14977
1997	729600.	0.	3487.	6734.	5180.	49973.	0.	32617.	38395
1996	440370.	0.	6550.	5169.	8959.	25583.	0.	78313.	17209
1995	783863.	0.	4064.	4861.	7016.	27831.	0.	22733.	22437
1994	947784.	0.	7370.	3097.	26891.	79002.	0.	3160.	20765
1993	609973.	0.	580.	1901.	8633.	11215.	0.	2472.	3173
1992	441859.	0.	1031.	3096.	10057.	6011.	0.	3045.	5193
1991	358588.	0.	1252.	1881.	7203.	8186.	0.	3631.	3940
1990	413363.	0.	1215.	1816.	7537.	9069.	0.	2571.	3658
1989	321294.	0.	0.	2393.	4097.	4069.	0.	1101.	654
1988	289685.	0.	164.	1508.	3692.	893.	0.	1598.	1538
1987	285312.	0.	1109.	504.	5250.	167.	0.	1479.	1768
1986	255599.	0.	2035.	847.	2690.	780.	0.	3021.	3949
1985	516290.	5117.	4843.	2868.	13707.	385.	0.	1609.	3176
1984	365158.	0.	17217.	1618.	6576.	505.	0.	1971.	1581
1983	423132.	0.	3403.	1169.	8917.	719.	0.	1245.	876
1982	337738.	0.	631.	2959.	4801.	527.	0.	409.	271
1981	364327.	0.	270.	1897.	9116.	352.	0.	271.	694
1980	623001.	0.	4424.	3183.	7868.	593.	0.	534.	528
1979	307148.	68.	3004.	2009.	5619.	160.	0.	542.	683
1978	511625.	23778.	5766.	10175.	14994.	21146.	0.	764.	127
1977	81248.	5708.	108.	1636.	3823.	1632.	0.	99.	586
1976	25980.	0.	0.	390.	221.	100.	0.	45.	230
1975	169824.	21530.	1280.	3605.	5613.	4783.	0.	6487.	3427
1974	22162.	0.	0.	483.	538.	0.	0.	0.	249
1973	165670.	0.	4980.	1753.	405.	0.	0.	213.	275
1972	39592.	0.	302.	251.	475.	0.	0.	152.	229

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	135633.	22236.	1210.	536.	1230.	0.	0.	218.	215
1970	13361.	3176.	195.	195.	151.	0.	0.	240.	238
1969	16558.	2295.	0.	50.	149.	0.	0.	31.	33
1968	38532.	2620.	800.	199.	163.	0.	0.	62.	31
1967	388069.	23903.	94.	4848.	3021.	4717.	0.	26.	29
1966	21350.	13715.	831.	919.	1173.	0.	0.	14.	14
1965	12351.	876.	0.	308.	0.	0.	0.	20.	41
1964	33060.	765.	153.	298.	160.	0.	0.	86.	79
1963	28801.	588.	0.	255.	163.	0.	0.	12.	12
1962	19672.	482.	0.	104.	62.	0.	0.	80.	114
1961	30063.	10565.	801.	343.	124.	0.	0.	96.	71
1960	41113.	9119.	1808.	307.	65.	0.	0.	288.	323
1959	29995.	55324.	2309.	1872.	1114.	0.	0.	538.	1166
1958	35294.	0.	3098.	327.	0.	0.	0.	56.	28
1957	28578.	0.	1781.	260.	0.	0.	0.	56.	175
1956	22092.	0.	202.	135.	0.	0.	0.	56.	98
1955	13956.	0.	121.	60.	0.	0.	0.	34.	67
1954	10810.	0.	0.	87.	0.	0.	0.	47.	47
1953	11579.	0.	1769.	134.	0.	0.	0.	633.	724
TOTAL	42190616.	236778.	296702.	331596.	468674.	1096853.	0.	816010.	596889

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	2152463.	0.	0.	0.	0.	0.	0.	0.	0
2010	2026573.	0.	0.	0.	0.	0.	0.	0.	0
2009	2065841.	0.	0.	0.	0.	0.	0.	0.	0
2008	2253108.	0.	0.	0.	0.	0.	0.	0.	0
2007	2188030.	0.	0.	0.	0.	0.	0.	0.	0
2006	2648150.	0.	0.	0.	0.	0.	0.	0.	0
2005	2972282.	0.	0.	0.	0.	0.	0.	0.	0
2004	2306982.	0.	0.	0.	0.	0.	0.	0.	0
2003	2445988.	228.	0.	0.	0.	0.	0.	0.	0
2002	2033383.	146577.	0.	0.	0.	0.	0.	0.	0
2001	860.	0.	0.	0.	0.	0.	0.	0.	0
2000	3781193.	227585.	344384.	108401.	0.	0.	0.	0.	0
1999	3541714.	37172.	62439.	29899.	17010.	0.	0.	0.	0
1998	1012997.	16594.	42575.	26567.	14001.	2395.	0.	0.	0
1997	729600.	42462.	51126.	65583.	44381.	72425.	407.	56.	0
1996	440370.	19645.	63166.	81245.	99518.	74524.	38764.	0.	0
1995	783863.	47052.	68308.	54060.	75693.	84084.	37551.	41914.	12216
1994	947784.	8901.	4197.	4802.	0.	65807.	15250.	18690.	23027
1993	609973.	3473.	8399.	5217.	6062.	20287.	7039.	12111.	20829
1992	441859.	3231.	14448.	10534.	10637.	18335.	11583.	22027.	30218
1991	358588.	3103.	13082.	7753.	10252.	8552.	7351.	22473.	32431
1990	413363.	1990.	5218.	6904.	6966.	7782.	10021.	16786.	21578
1989	321294.	1093.	4250.	3617.	4106.	4382.	3942.	9782.	24085
1988	289685.	1899.	7593.	6368.	6015.	5283.	6165.	13801.	22571
1987	285312.	2210.	3130.	4673.	5340.	17202.	17753.	29737.	31772
1986	255599.	5065.	11161.	19284.	16605.	22320.	14660.	19303.	37474
1985	516290.	4741.	5633.	14558.	9763.	7647.	8345.	20161.	20751
1984	365158.	2223.	4571.	7212.	6039.	3237.	4905.	9917.	13301
1983	423132.	523.	2894.	2326.	4001.	2690.	7106.	6506.	6502
1982	337738.	488.	1368.	2144.	2208.	1494.	1729.	4438.	5545
1981	364327.	357.	1815.	2160.	2738.	1891.	1267.	3719.	5483
1980	623001.	1689.	2534.	2520.	2433.	1125.	2828.	6410.	8052
1979	307148.	122.	2722.	467.	2604.	710.	1744.	4170.	7211
1978	511625.	500.	1351.	1193.	2692.	1715.	1340.	2757.	5521
1977	81248.	198.	431.	782.	532.	334.	381.	524.	1484
1976	25980.	0.	444.	47.	416.	319.	366.	319.	1224
1975	169824.	5038.	12476.	3340.	1000.	219.	469.	690.	692
1974	22162.	251.	581.	338.	425.	695.	773.	576.	1019
1973	165670.	270.	992.	1886.	2171.	1302.	1691.	1200.	1625
1972	39592.	229.	913.	610.	1154.	1027.	701.	4931.	2128

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	135633.	140.	643.	506.	290.	634.	1422.	344.	1502
1970	13361.	308.	308.	654.	276.	302.	271.	378.	580
1969	16558.	196.	192.	494.	263.	261.	467.	551.	910
1968	38532.	309.	376.	308.	882.	316.	322.	508.	1043
1967	388069.	173.	140.	292.	408.	439.	226.	392.	647
1966	21350.	42.	142.	208.	128.	92.	772.	1179.	2086
1965	12351.	51.	56.	181.	194.	71.	56.	129.	208
1964	33060.	133.	265.	320.	221.	308.	172.	1348.	556
1963	28801.	15.	225.	237.	163.	83.	135.	173.	249
1962	19672.	60.	62.	211.	569.	914.	531.	686.	1965
1961	30063.	115.	175.	171.	371.	199.	208.	518.	233
1960	41113.	580.	700.	1076.	1253.	923.	529.	1916.	2304
1959	29995.	1418.	2606.	1838.	1514.	2022.	2928.	22003.	4534
1958	35294.	133.	189.	217.	476.	175.	140.	252.	168
1957	28578.	154.	126.	140.	392.	182.	147.	273.	245
1956	22092.	91.	112.	133.	196.	168.	182.	119.	273
1955	13956.	54.	60.	121.	215.	80.	80.	54.	114
1954	10810.	13.	47.	121.	134.	20.	60.	80.	107
1953	11579.	1167.	1758.	2510.	1458.	1669.	1676.	3167.	123
TOTAL	42190616.	590061.	750383.	484228.	364165.	436641.	214455.	307068.	354586

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	2152463.	0.	0.	0.	0.	0.	0.	0.	0
2010	2026573.	0.	0.	0.	0.	0.	0.	0.	0
2009	2065841.	0.	0.	0.	0.	0.	0.	0.	0
2008	2253108.	0.	0.	0.	0.	0.	0.	0.	0
2007	2188030.	0.	0.	0.	0.	0.	0.	0.	0
2006	2648150.	0.	0.	0.	0.	0.	0.	0.	0
2005	2972282.	0.	0.	0.	0.	0.	0.	0.	0
2004	2306982.	0.	0.	0.	0.	0.	0.	0.	0
2003	2445988.	0.	0.	0.	0.	0.	0.	0.	0
2002	2033383.	0.	0.	0.	0.	0.	0.	0.	0
2001	860.	0.	0.	0.	0.	0.	0.	0.	0
2000	3781193.	0.	0.	0.	0.	0.	0.	0.	0
1999	3541714.	0.	0.	0.	0.	0.	0.	0.	0
1998	1012997.	0.	0.	0.	0.	0.	0.	0.	0
1997	729600.	0.	0.	0.	0.	0.	0.	0.	0
1996	440370.	0.	0.	0.	0.	0.	0.	0.	0
1995	783863.	9261.	0.	0.	0.	0.	0.	0.	0
1994	947784.	4921.	0.	0.	0.	0.	0.	0.	0
1993	609973.	13318.	0.	0.	0.	0.	0.	0.	0
1992	441859.	27229.	0.	0.	0.	0.	0.	0.	0
1991	358588.	33397.	0.	0.	0.	0.	0.	0.	0
1990	413363.	13563.	0.	0.	0.	0.	0.	0.	0
1989	321294.	8856.	0.	0.	0.	0.	0.	0.	0
1988	289685.	12250.	0.	0.	0.	0.	0.	0.	0
1987	285312.	23766.	0.	0.	0.	0.	0.	0.	0
1986	255599.	33818.	0.	0.	0.	0.	0.	0.	0
1985	516290.	12657.	0.	0.	0.	0.	0.	0.	0
1984	365158.	9556.	0.	0.	0.	0.	0.	0.	0
1983	423132.	5549.	0.	0.	0.	0.	0.	0.	0
1982	337738.	2822.	0.	0.	0.	0.	0.	0.	0
1981	364327.	3808.	0.	0.	0.	0.	0.	0.	0
1980	623001.	3971.	0.	0.	0.	0.	0.	0.	0
1979	307148.	4384.	0.	31.	0.	0.	214.	61.	0
1978	511625.	3017.	0.	0.	0.	0.	0.	0.	0
1977	81248.	861.	0.	0.	0.	0.	0.	0.	0
1976	25980.	914.	0.	0.	0.	0.	0.	0.	0
1975	169824.	772.	0.	0.	0.	0.	0.	0.	0
1974	22162.	648.	0.	0.	0.	0.	0.	0.	0
1973	165670.	1510.	0.	0.	0.	0.	0.	0.	0
1972	39592.	1458.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	135633.	874.	3410.	2783.	1344.	0.	1705.	0.	0
1970	13361.	819.	0.	0.	0.	0.	0.	0.	0
1969	16558.	721.	0.	0.	0.	0.	0.	0.	0
1968	38532.	813.	0.	0.	0.	0.	0.	0.	0
1967	388069.	748.	0.	0.	0.	0.	0.	0.	0
1966	21350.	1697.	0.	0.	0.	0.	0.	0.	0
1965	12351.	915.	0.	0.	0.	0.	0.	0.	0
1964	33060.	639.	0.	0.	0.	0.	0.	0.	0
1963	28801.	323.	0.	0.	0.	0.	0.	0.	0
1962	19672.	259.	0.	0.	0.	0.	0.	0.	0
1961	30063.	662.	0.	0.	0.	0.	0.	0.	0
1960	41113.	614.	0.	1782.	2102.	0.	0.	0.	0
1959	29995.	7493.	0.	24316.	18859.	0.	20125.	3846.	15424
1958	35294.	427.	0.	0.	5334.	0.	0.	0.	0
1957	28578.	217.	0.	0.	5007.	0.	0.	0.	0
1956	22092.	245.	0.	0.	3625.	0.	0.	0.	0
1955	13956.	221.	0.	0.	3454.	0.	0.	0.	0
1954	10810.	214.	0.	0.	0.	0.	21700.	413.	2552
1953	11579.	198.	0.	0.	0.	0.	4444.	0.	0
TOTAL	42190616.	250405.	3410.	28912.	39725.	0.	48188.	4320.	17976

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984
2011	2152463.	0.	0.	0.	0.
2010	2026573.	0.	0.	0.	0.
2009	2065841.	0.	0.	0.	0.
2008	2253108.	0.	0.	0.	0.
2007	2188030.	0.	0.	0.	0.
2006	2648150.	0.	0.	0.	0.
2005	2972282.	0.	0.	0.	0.
2004	2306982.	0.	0.	0.	0.
2003	2445988.	0.	0.	0.	0.
2002	2033383.	0.	0.	0.	0.
2001	860.	0.	0.	0.	0.
2000	3781193.	0.	0.	0.	0.
1999	3541714.	0.	0.	0.	0.
1998	1012997.	0.	0.	0.	0.
1997	729600.	0.	0.	0.	0.
1996	440370.	0.	0.	0.	0.
1995	783863.	0.	0.	0.	0.
1994	947784.	0.	0.	0.	0.
1993	609973.	0.	0.	0.	0.
1992	441859.	0.	0.	0.	0.
1991	358588.	0.	0.	0.	0.
1990	413363.	0.	0.	0.	0.
1989	321294.	0.	0.	0.	0.
1988	289685.	0.	0.	0.	0.
1987	285312.	0.	0.	0.	0.
1986	255599.	0.	0.	0.	0.
1985	516290.	0.	0.	0.	0.
1984	365158.	0.	0.	0.	0.
1983	423132.	0.	0.	0.	0.
1982	337738.	0.	0.	0.	0.
1981	364327.	0.	0.	0.	0.
1980	623001.	0.	0.	0.	0.
1979	307148.	0.	92.	0.	0.
1978	511625.	0.	123.	0.	0.
1977	81248.	0.	0.	0.	0.
1976	25980.	0.	0.	0.	0.
1975	169824.	0.	0.	0.	0.
1974	22162.	0.	0.	0.	0.
1973	165670.	0.	0.	0.	0.
1972	39592.	0.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984
1971	135633.	0.	0.	0.	0.
1970	13361.	0.	0.	0.	1373.
1969	16558.	0.	0.	0.	0.
1968	38532.	0.	2793.	0.	0.
1967	388069.	0.	0.	0.	0.
1966	21350.	0.	512.	0.	789.
1965	12351.	0.	0.	0.	0.
1964	33060.	0.	0.	0.	0.
1963	28801.	0.	0.	0.	0.
1962	19672.	0.	0.	0.	0.
1961	30063.	0.	0.	0.	0.
1960	41113.	0.	0.	8010.	5010.
1959	29995.	23241.	3779.	1505.	528.
1958	35294.	0.	0.	0.	0.
1957	28578.	0.	0.	493.	0.
1956	22092.	0.	0.	0.	0.
1955	13956.	0.	0.	0.	0.
1954	10810.	3285.	0.	0.	0.
1953	11579.	0.	0.	0.	0.
TOTAL	42190616.	26526.	7299.	10008.	7700.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1984 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	45030781.	11729.	0.00026047	0.99973953	1.00000000
0.5	43344147.	586070.	0.01352132	0.98647868	0.99973953
1.5	41101076.	1022431.	0.02487602	0.97512398	0.98622174
2.5	38412969.	858086.	0.02233845	0.97766155	0.96168847
3.5	35973468.	744119.	0.02068522	0.97931478	0.94020585
4.5	33385084.	787804.	0.02359748	0.97640252	0.92075748
5.5	30557714.	329050.	0.01076815	0.98923185	0.89902992
6.5	27356749.	522972.	0.01911675	0.98088325	0.88934904
7.5	24557810.	378308.	0.01540479	0.98459521	0.87234758
8.5	21974759.	384841.	0.01751287	0.98248713	0.85890924
9.5	19585323.	307958.	0.01572392	0.98427608	0.84386728
10.5	19462448.	174346.	0.00895807	0.99104193	0.83059838
11.5	15561061.	187518.	0.01205046	0.98794954	0.82315782
12.5	12008704.	169513.	0.01411584	0.98588416	0.81323839
13.5	10849019.	116585.	0.01074613	0.98925387	0.80175884
14.5	10026005.	83341.	0.00831248	0.99168752	0.79314303
15.5	9552371.	84695.	0.00886639	0.99113361	0.78655005
16.5	9111985.	64624.	0.00709220	0.99290780	0.77957619
17.5	8145240.	52645.	0.00646328	0.99353672	0.77404728
18.5	7498079.	33983.	0.00453223	0.99546777	0.76904439
19.5	7060800.	22223.	0.00314738	0.99685262	0.76555891
20.5	6711423.	22911.	0.00341373	0.99658627	0.76314941
21.5	6300920.	18011.	0.00285847	0.99714153	0.76054422
22.5	6006330.	31264.	0.00520518	0.99479482	0.75837023
23.5	5765203.	25872.	0.00448761	0.99551239	0.75442278
24.5	5704316.	37276.	0.00653470	0.99346530	0.75103722
25.5	5457755.	38885.	0.00712472	0.99287528	0.74612941
26.5	4940806.	40735.	0.00824461	0.99175539	0.74081345
27.5	4562640.	46525.	0.01019695	0.98980305	0.73470573
28.5	4111674.	54878.	0.01334688	0.98665312	0.72721398
29.5	3758795.	39582.	0.01053050	0.98946950	0.71750794
30.5	3387895.	41859.	0.01235546	0.98764454	0.70995222
31.5	2723035.	19061.	0.00699991	0.99300009	0.70118044
32.5	2396826.	57402.	0.02394917	0.97605083	0.69627224
33.5	1827799.	46594.	0.02549186	0.97450814	0.67959709
34.5	1699957.	10688.	0.00628722	0.99371278	0.66227290
35.5	1663289.	60791.	0.03654867	0.96345133	0.65810904
36.5	1432674.	23030.	0.01607484	0.98392516	0.63405603
37.5	1387482.	25267.	0.01821069	0.98178931	0.62386369
38.5	1196545.	7142.	0.00596885	0.99403115	0.61250270

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38200 Meter Istallations

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1984 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	1149811.	31890.	0.02773499	0.97226501	0.60884676
40.5	982288.	10088.	0.01026990	0.98973010	0.59196040
41.5	958839.	13094.	0.01365610	0.98634390	0.58588103
42.5	929187.	8030.	0.00864196	0.99135804	0.57788018
43.5	882625.	30871.	0.03497635	0.96502365	0.57288616
44.5	463685.	17933.	0.03867496	0.96132504	0.55284869
45.5	424402.	4102.	0.00966536	0.99033464	0.53146729
46.5	407949.	2954.	0.00724110	0.99275890	0.52633047
47.5	371935.	3761.	0.01011198	0.98988802	0.52251925
48.5	339373.	4598.	0.01354851	0.98645149	0.51723555
49.5	315103.	15493.	0.04916805	0.95083195	0.51022777
50.5	269547.	12526.	0.04647056	0.95352944	0.48514087
51.5	215908.	59315.	0.27472349	0.72527651	0.46259610
52.5	126598.	1916.	0.01513452	0.98486548	0.33551009
53.5	89388.	262.	0.00293104	0.99706896	0.33043230
54.5	60548.	208.	0.00343529	0.99656471	0.32946379
55.5	38248.	134.	0.00350345	0.99649655	0.32833199
56.5	24158.	1769.	0.07322626	0.92677374	0.32718169
57.5	11579.	0.	0.00000000	1.00000000	0.30322340
TOTAL		7789558.			39.54045390

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38200 Meter Istallations

EXPERIENCE BAND 1984 TO 2011 DEGREE 2 AVG LIFE 42.521110 FIT INDEX 0.000936 VARIANCE 0.329974

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 57.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	45030781.	11729.	533859.	0.00026047	0.01185543	1.00000000	1.00000000	0.00	0.00000000
0.5	43344147.	586070.	995594.	0.01352132	0.02296950	0.99973953	0.98814457	1.18	-0.00016808
1.5	41101076.	1022431.	885335.	0.02487602	0.02154043	0.98622174	0.96544738	3.53	0.00011262
2.5	38412969.	858086.	775285.	0.02233845	0.02018291	0.96168847	0.94465122	5.88	0.00187704
3.5	35973468.	744119.	679788.	0.02068522	0.01889693	0.94020585	0.92558541	8.23	0.00507704
4.5	33385084.	787804.	590332.	0.02359748	0.01768250	0.92075748	0.90809469	10.58	0.00965818
5.5	30557714.	329050.	505413.	0.01076815	0.01653961	0.89902992	0.89203731	12.93	0.01556069
6.5	27356749.	522972.	423161.	0.01911675	0.01546827	0.88934904	0.87728336	15.29	0.02272008
7.5	24557810.	378308.	355314.	0.01540479	0.01446847	0.87234758	0.86371331	17.64	0.03106827
8.5	21974759.	384841.	297543.	0.01751287	0.01354022	0.85890924	0.85121670	19.99	0.04053384
9.5	19585323.	307958.	248411.	0.01572392	0.01268352	0.84386728	0.83969104	22.34	0.05104323
10.5	19462448.	174346.	231571.	0.00895807	0.01189836	0.83059838	0.82904080	24.69	0.06252129
11.5	15561061.	187518.	174047.	0.01205046	0.01118475	0.82315782	0.81917657	27.05	0.07489184
12.5	12008704.	169513.	126604.	0.01411584	0.01054268	0.81323839	0.81001429	29.40	0.08807841
13.5	10849019.	116585.	108188.	0.01074613	0.00997216	0.80175884	0.80147457	31.75	0.10200491
14.5	10026005.	83341.	94978.	0.00831248	0.00947319	0.79314303	0.79348214	34.10	0.11659591
15.5	9552371.	84695.	86408.	0.00886639	0.00904576	0.78655005	0.78596533	36.45	0.13177740
16.5	9111985.	64624.	79182.	0.00709220	0.00868987	0.77957619	0.77885568	38.80	0.14747704
17.5	8145240.	52645.	68465.	0.00646328	0.00840554	0.77404728	0.77208752	41.16	0.16362461
18.5	7498079.	33983.	61430.	0.00453223	0.00819275	0.76904439	0.76559771	43.51	0.18015223
19.5	7060800.	22223.	56850.	0.00314738	0.00805150	0.76555891	0.75932537	45.86	0.19699482
20.5	6711423.	22911.	53569.	0.00341373	0.00798180	0.76314941	0.75321166	48.21	0.21409012
21.5	6300920.	18011.	50304.	0.00285847	0.00798365	0.76054422	0.74719967	50.56	0.23137902
22.5	6006330.	31264.	48393.	0.00520518	0.00805704	0.75837023	0.74123429	52.91	0.24880562
23.5	5765203.	25872.	47286.	0.00448761	0.00820198	0.75442278	0.73526214	55.27	0.26631728
24.5	5704316.	37276.	48022.	0.00653470	0.00841846	0.75103722	0.72923154	57.62	0.28386484
25.5	5457755.	38885.	47518.	0.00712472	0.00870649	0.74612941	0.72309253	59.97	0.30140244
26.5	4940806.	40735.	44794.	0.00824461	0.00906607	0.74081345	0.71679693	62.32	0.31888771
27.5	4562640.	46525.	43332.	0.01019695	0.00949719	0.73470573	0.71029840	64.67	0.33628152
28.5	4111674.	54878.	41116.	0.01334688	0.00999985	0.72721398	0.70355257	67.03	0.35354811
29.5	3758795.	39582.	39746.	0.01053050	0.01057407	0.71750794	0.69651714	69.38	0.37065488
30.5	3387895.	41859.	38012.	0.01235546	0.01121983	0.70995222	0.68915213	71.73	0.38757245
31.5	2723035.	19061.	32505.	0.00699991	0.01193713	0.70118044	0.68141996	74.08	0.40427430

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38200 Meter Istallations

EXPERIENCE BAND 1984 TO 2011 DEGREE 2 AVG LIFE 42.521110 FIT INDEX 0.000936 VARIANCE 0.329974

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
				FITTED RANGE AGE 0.5 TO 57.5					
32.5	2396826.	57402.	30502.	0.02394917	0.01272598	0.69627224	0.67328576	76.43	0.42073691
33.5	1827799.	46594.	24833.	0.02549186	0.01358638	0.67959709	0.66471754	78.78	0.43693952
34.5	1699957.	10688.	24681.	0.00628722	0.01451832	0.66227290	0.65568643	81.14	0.45286387
35.5	1663289.	60791.	25817.	0.03654867	0.01552181	0.65810904	0.64616697	83.49	0.46849431
36.5	1432674.	23030.	23778.	0.01607484	0.01659684	0.63405603	0.63613729	85.84	0.48381743
37.5	1387482.	25267.	24619.	0.01821069	0.01774342	0.62386369	0.62557942	88.19	0.49882202
38.5	1196545.	7142.	22688.	0.00596885	0.01896155	0.61250270	0.61447950	90.54	0.51349893
39.5	1149811.	31890.	23285.	0.02773499	0.02025122	0.60884676	0.60282802	92.90	0.52784081
40.5	982288.	10088.	21230.	0.01026990	0.02161244	0.59196040	0.59062001	95.25	0.54184216
41.5	958839.	13094.	22097.	0.01365610	0.02304520	0.58588103	0.57785528	97.60	0.55549900
42.5	929187.	8030.	22811.	0.00864196	0.02454951	0.57788018	0.56453849	99.95	0.56880886
43.5	882625.	30871.	23059.	0.03497635	0.02612536	0.57288616	0.55067934	102.30	0.58177061
44.5	463685.	17933.	12878.	0.03867496	0.02777276	0.55284869	0.53629264	104.65	0.59438427
45.5	424402.	4102.	12516.	0.00966536	0.02949171	0.53146729	0.52139831	107.01	0.60665105
46.5	407949.	2954.	12762.	0.00724110	0.03128220	0.52633047	0.50602139	109.36	0.61857308
47.5	371935.	3761.	12328.	0.01011198	0.03314424	0.52251925	0.49019192	111.71	0.63015333
48.5	339373.	4598.	11904.	0.01354851	0.03507783	0.51723555	0.47394488	114.06	0.64139565
49.5	315103.	15493.	11685.	0.04916805	0.03708296	0.51022777	0.45731993	116.41	0.65230450
50.5	269547.	12526.	10555.	0.04647056	0.03915963	0.48514087	0.44036115	118.76	0.66288494
51.5	215908.	59315.	8919.	0.27472349	0.04130785	0.46259610	0.42311677	121.12	0.67314258
52.5	126598.	1916.	5511.	0.01513452	0.04352762	0.33551009	0.40563873	123.47	0.68308343
53.5	89388.	262.	4096.	0.00293104	0.04581893	0.33043230	0.38798224	125.82	0.69271389
54.5	60548.	208.	2917.	0.00343529	0.04818179	0.32946379	0.37020530	128.17	0.70204067
55.5	38248.	134.	1936.	0.00350345	0.05061620	0.32833199	0.35236815	130.52	0.71107072
56.5	24158.	1769.	1283.	0.07322626	0.05312215	0.32718169	0.33453261	132.88	0.71981118
57.5	11579.	0.	645.	0.00000000	0.05569965	0.30322340	0.31676152	135.23	0.72826935
TOTAL (EXCEPT AGE 0)		7777829.	7777829.						

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38200 Meter Istallations

EXPERIENCE BAND 1984 TO 2011 DEGREE 2 AVG LIFE 42.521110 FIT INDEX 0.000936 VARIANCE 0.329974

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 57.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
58.5					0.05834869		0.29911802	137.58	0.73645262
59.5					0.06106928		0.28166487	139.93	0.74436848
60.5					0.06386141		0.26446380	142.28	0.75202441
61.5					0.06672509		0.24757477	144.63	0.75942794
62.5					0.06966032		0.23105532	146.99	0.76658653
63.5					0.07266709		0.21495993	149.34	0.77350760
64.5					0.07574541		0.19933942	151.69	0.78019852
65.5					0.07889527		0.18424037	154.04	0.78666654
66.5					0.08211668		0.16970468	156.39	0.79291882
67.5					0.08540964		0.15576909	158.74	0.79896241
68.5					0.08877414		0.14246491	161.10	0.80480423
69.5					0.09221018		0.12981771	163.45	0.81045102
70.5					0.09571778		0.11784720	165.80	0.81590945
71.5					0.09929692		0.10656713	168.15	0.82118596
72.5					0.10294760		0.09598534	170.50	0.82628691
73.5					0.10666983		0.08610388	172.86	0.83121844
74.5					0.11046361		0.07691919	175.21	0.83598656
75.5					0.11432893		0.06842242	177.56	0.84059716
76.5					0.11826580		0.06059976	179.91	0.84505591
77.5					0.12227421		0.05343288	182.26	0.84936842
78.5					0.12635417		0.04689942	184.61	0.85354007
79.5					0.13050568		0.04097348	186.97	0.85757617
80.5					0.13472873		0.03562621	189.32	0.86148190
81.5					0.13902332		0.03082633	191.67	0.86526234
82.5					0.14338947		0.02654076	194.02	0.86892248
83.5					0.14782716		0.02273509	196.37	0.87246726
84.5					0.15233639		0.01937423	198.72	0.87590161
85.5					0.15691717		0.01642283	201.08	0.87923044
86.5					0.16156950		0.01384580	203.43	0.88245878
87.5					0.16629337		0.01160874	205.78	0.88559175
88.5					0.17108879		0.00967829	208.13	0.88863475
89.5					0.17595575		0.00802244	210.48	0.89159354
90.5					0.18089426		0.00661085	212.84	0.89447439

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38200 Meter Istallations

EXPERIENCE BAND 1984 TO 2011 DEGREE 2 AVG LIFE 42.521110 FIT INDEX 0.000936 VARIANCE 0.329974

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 57.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
91.5					0.18590432		0.00541498	215.19	0.89728433
92.5					0.19098592		0.00440831	217.54	0.90003146
93.5					0.19613907		0.00356639	219.89	0.90272531
94.5					0.20136376		0.00286688	222.24	0.90537750
95.5					0.20666000		0.00228959	224.59	0.90800245
96.5					0.21202778		0.00181643	226.95	0.91061852
97.5					0.21746711		0.00143129	229.30	0.91324954
98.5					0.22297799		0.00112003	231.65	0.91592699
99.5					0.22856041		0.00087029	234.00	0.91869311
100.5					0.23421438		0.00067138	236.35	0.92160530
101.5					0.23993989		0.00051413	238.70	0.92474257
102.5					0.24573695		0.00039077	241.06	0.92821473
103.5					0.25160556		0.00029474	243.41	0.93217602
104.5					0.25754571		0.00022058	245.76	0.93684501
105.5					0.26355741		0.00016377	248.11	0.94253424
106.5					0.26964065		0.00012061	250.46	0.94969442
107.5					0.27579544		0.00008809	252.82	0.95898113
108.5					0.28202178		0.00006379	255.17	0.97135591
109.5							0.00004580	257.52	0.98824113

EQUIVALENT H CURVE IS 1.26

EQUIVALENT L CURVE IS 0.50

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS

Peoples Gas System
Net Salvage Analysis
Account - 382.00 - Meter Installations
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	296,704	(93,364)	(31)	0	0	(93,364)	(31)
2009	331,593	(120,444)	(36)	0	0	(120,444)	(36)
2008	468,673	(123,257)	(26)	0	0	(123,257)	(26)
2007	1,096,852	(262,646)	(24)	43,043	4	(219,603)	(20)
2006	0	0	0	0	0	0	0
2005	816,016	(117,763)	(14)	0	0	(117,763)	(14)
2004	596,890	(137,974)	(23)	0	0	(137,974)	(23)
2003	590,062	(265,620)	(45)	0	0	(265,620)	(45)
2002	750,382	(271,345)	(36)	0	0	(271,345)	(36)
2001	484,230	(238,397)	(49)	0	0	(238,397)	(49)
2000	350,795	(54,418)	(16)	47	0	(54,371)	(15)
1999	436,444	(56,572)	(13)	0	0	(56,572)	(13)
1998	214,458	(40,516)	(19)	0	0	(40,516)	(19)
1997	318,756	(52,291)	(16)	0	0	(52,291)	(16)
1996	356,536	(84,543)	(24)	0	0	(84,543)	(24)
1995	264,745	(65,766)	(25)	0	0	(65,766)	(25)
1994	3,410	(1,185)	(35)	0	0	(1,185)	(35)
1993	33,344	0	0	0	0	0	0
1992	75,139	(958)	(1)	0	0	(958)	(1)
1991	0	(1,343)	0	0	0	(1,343)	0
1990	90,988	(2,798)	(3)	0	0	(2,798)	(3)
1989	21,164	(1,659)	(8)	0	0	(1,659)	(8)
1988	20,670	(879)	(4)	0	0	(879)	(4)
1987	31,603	(1,189)	(4)	0	0	(1,189)	(4)
1986	8,632	(1,522)	(18)	0	0	(1,522)	(18)
1985	11,330	(2,296)	(20)	0	0	(2,296)	(20)
1984	8,956	(2,136)	(24)	0	0	(2,136)	(24)
1983	0	(3,333)	0	0	0	(3,333)	0
1982	0	0	0	0	0	0	0
	7,678,371	**(2,004,212)**	**(26)**	**43,090**	**1**	**(1,961,122)**	**(26)**

Peoples Gas System
Net Salvage Analysis
Account - 382.00 - Meter Installations
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	2,193,821	(599,711)	(27)	43,043	2	(556,668)	(25)
2009	2,713,133	(624,110)	(23)	43,043	2	(581,067)	(21)
2008	2,978,431	(641,640)	(22)	43,043	1	(598,597)	(20)
2007	3,099,821	(784,002)	(25)	43,043	1	(740,959)	(24)
2006	2,753,351	(792,702)	(29)	0	0	(792,702)	(29)
2005	3,237,581	(1,031,099)	(32)	0	0	(1,031,099)	(32)
2004	2,772,360	(967,754)	(35)	47	0	(967,707)	(35)
2003	2,611,913	(886,352)	(34)	47	0	(886,305)	(34)
2002	2,236,309	(661,248)	(30)	47	0	(661,201)	(30)
2001	1,804,682	(442,194)	(25)	47	0	(442,146)	(24)
2000	1,676,988	(288,339)	(17)	47	0	(288,292)	(17)
1999	1,590,938	(299,687)	(19)	0	0	(299,687)	(19)
1998	1,157,904	(244,300)	(21)	0	0	(244,300)	(21)
1997	976,790	(203,784)	(21)	0	0	(203,784)	(21)
1996	733,174	(152,451)	(21)	0	0	(152,451)	(21)
1995	376,638	(69,252)	(18)	0	0	(69,252)	(18)
1994	202,881	(6,284)	(3)	0	0	(6,284)	(3)
1993	220,635	(6,758)	(3)	0	0	(6,758)	(3)
1992	207,961	(7,637)	(4)	0	0	(7,637)	(4)
1991	164,425	(7,868)	(5)	0	0	(7,868)	(5)
1990	173,057	(8,046)	(5)	0	0	(8,046)	(5)
1989	93,400	(7,544)	(8)	0	0	(7,544)	(8)
1988	81,191	(8,022)	(10)	0	0	(8,022)	(10)
1987	60,521	(10,475)	(17)	0	0	(10,475)	(17)
1986	28,918	(9,286)	(32)	0	0	(9,286)	(32)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300. House Regulators

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 28.0 YRS CURVE: IOWA R2 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	647526.	0.016150	10457.	637069.
2010	1.50	582124.	0.048212	28065.	554059.
2009	2.50	657231.	0.079945	52543.	604688.
2008	3.50	529731.	0.111322	58971.	470760.
2007	4.50	508658.	0.142334	72399.	436259.
2006	5.50	465723.	0.172956	80549.	385174.
2005	6.50	382910.	0.203180	77800.	305110.
2004	7.50	300867.	0.232986	70098.	230769.
2003	8.50	208000.	0.262356	54570.	153430.
2002	9.50	297385.	0.291285	86624.	210761.
2001	10.50	38881.	0.319745	12432.	26449.
2000	11.50	1009930.	0.347724	351177.	658753.
1999	12.50	565051.	0.375201	212008.	353043.
1998	13.50	478882.	0.402165	192589.	286293.
1997	14.50	606322.	0.428595	259867.	346455.
1996	15.50	377597.	0.454467	171605.	205992.
1995	16.50	356367.	0.479775	170976.	185391.
1994	17.50	380738.	0.504479	192074.	188664.
1993	18.50	398324.	0.528585	210548.	187776.
1992	19.50	253377.	0.552040	139874.	113503.
1991	20.50	372883.	0.574854	214353.	158530.
1990	21.50	270184.	0.596984	161295.	108889.
1989	22.50	205789.	0.618419	127264.	78525.
1988	23.50	247713.	0.639150	158326.	89387.
1987	24.50	325178.	0.659136	214337.	110841.
1986	25.50	293993.	0.678389	199442.	94551.
1985	26.50	220482.	0.696878	153649.	66833.
1984	27.50	172059.	0.714613	122956.	49103.
1983	28.50	87505.	0.731582	64017.	23488.
1982	29.50	105109.	0.747793	78600.	26509.
1981	30.50	133227.	0.763262	101687.	31540.
1980	31.50	91492.	0.777996	71180.	20312.
1979	32.50	63878.	0.792028	50593.	13285.
1978	33.50	64995.	0.805401	52347.	12648.
1977	34.50	48966.	0.818152	40062.	8904.
1976	35.50	26908.	0.830343	22343.	4565.
1975	36.50	70433.	0.842041	59307.	11126.
1974	37.50	33864.	0.853302	28896.	4968.
1973	38.50	105571.	0.864259	91241.	14330.
1972	39.50	19120.	0.874923	16729.	2391.
1971	40.50	14242.	0.885458	12611.	1631.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300. House Regulators

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 28.0 YRS CURVE: IOWA R2 O.C. SALVAGE %: 0.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	17669.	0.895873	15829.	1840.
1969	42.50	16700.	0.906236	15134.	1566.
1968	43.50	8308.	0.916590	7615.	693.
1967	44.50	2686.	0.926876	2490.	196.
1966	45.50	7112.	0.937186	6665.	447.
1965	46.50	3561.	0.947366	3374.	187.
1964	47.50	5185.	0.957731	4966.	219.
1963	48.50	4973.	0.968644	4817.	156.
1962	49.50	281.	0.982753	276.	5.
1961	50.50	75293.	1.000000	75293.	0.
1960	51.50	35463.	1.000000	35463.	0.
1959	52.50	13913.	1.000000	13913.	0.
1958	53.50	5216.	1.000000	5216.	0.
SUBTOTAL :			0.387825	4737511.	7478064.
NET SALVAGE: 0.0%				0.	0.
TOTAL :		12215575.	0.387825	4737511.	7478064.

WEIGHTED AGE: 14.1 YEARS
REMAINING LIFE: 17.1 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300. House Regulators

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 28.0 YRS CURVE: IOWA R2 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	647526.	0.035714	23126.
2010	1.50 - 2.50	582124.	0.035714	20790.
2009	2.50 - 3.50	657231.	0.035714	23473.
2008	3.50 - 4.50	529731.	0.035714	18919.
2007	4.50 - 5.50	508658.	0.035714	18166.
2006	5.50 - 6.50	465723.	0.035714	16633.
2005	6.50 - 7.50	382910.	0.035714	13675.
2004	7.50 - 8.50	300867.	0.035714	10745.
2003	8.50 - 9.50	208000.	0.035714	7429.
2002	9.50 - 10.50	297385.	0.035714	10621.
2001	10.50 - 11.50	38881.	0.035714	1389.
2000	11.50 - 12.50	1009930.	0.035714	36069.
1999	12.50 - 13.50	565051.	0.035714	20180.
1998	13.50 - 14.50	478882.	0.035714	17103.
1997	14.50 - 15.50	606322.	0.035714	21654.
1996	15.50 - 16.50	377597.	0.035714	13486.
1995	16.50 - 17.50	356367.	0.035714	12727.
1994	17.50 - 18.50	380738.	0.035714	13598.
1993	18.50 - 19.50	398324.	0.035714	14226.
1992	19.50 - 20.50	253377.	0.035714	9049.
1991	20.50 - 21.50	372883.	0.035714	13317.
1990	21.50 - 22.50	270184.	0.035714	9649.
1989	22.50 - 23.50	205789.	0.035714	7350.
1988	23.50 - 24.50	247713.	0.035714	8847.
1987	24.50 - 25.50	325178.	0.035714	11614.
1986	25.50 - 26.50	293993.	0.035714	10500.
1985	26.50 - 27.50	220482.	0.035714	7874.
1984	27.50 - 28.50	172059.	0.035714	6145.
1983	28.50 - 29.50	87505.	0.035714	3125.
1982	29.50 - 30.50	105109.	0.035714	3754.
1981	30.50 - 31.50	133227.	0.035714	4758.
1980	31.50 - 32.50	91492.	0.035714	3268.
1979	32.50 - 33.50	63878.	0.035714	2281.
1978	33.50 - 34.50	64995.	0.035714	2321.
1977	34.50 - 35.50	48966.	0.035714	1749.
1976	35.50 - 36.50	26908.	0.035714	961.
1975	36.50 - 37.50	70433.	0.035714	2515.
1974	37.50 - 38.50	33864.	0.035714	1209.
1973	38.50 - 39.50	105571.	0.035714	3770.
1972	39.50 - 40.50	19120.	0.035714	683.
1971	40.50 - 41.50	14242.	0.035714	509.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300. House Regulators

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 28.0 YRS CURVE: IOWA R2 O.C. SALVAGE %: 0.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
	1970	41.50 - 42.50	17669.	0.035714	631.
	1969	42.50 - 43.50	16700.	0.035714	596.
	1968	43.50 - 44.50	8308.	0.035714	297.
	1967	44.50 - 45.50	2686.	0.035714	96.
	1966	45.50 - 46.50	7112.	0.035714	254.
	1965	46.50 - 47.50	3561.	0.035714	127.
	1964	47.50 - 48.50	5185.	0.035714	185.
	1963	48.50 - 49.50	4973.	0.035714	178.
	1962	49.50 - 50.50	281.	0.035714	10.
	1961	50.50 - 51.50	75293.	0.035714	2689.
	1960	51.50 - 52.50	35463.	0.035714	1267.
	1959	52.50 - 53.50	13913.	0.035714	497.
	1958	53.50 - 54.50	5216.	0.035714	186.
SUBTOTAL :			12215575.	0.035714	436273.
NET SALVAGE:	0.0 %				0.
TOTAL :			12215575.	0.035714	436273.

MONTHLY RATE: 0.002976

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300. House Regulators

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 28.0 YRS CURVE: IOWA R2

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	647526.	27.5	17837831.
2010	1.50	582124.	26.6	15513562.
2009	2.50	657231.	25.8	16931190.
2008	3.50	529731.	24.9	13181220.
2007	4.50	508658.	24.0	12215181.
2006	5.50	465723.	23.2	10784803.
2005	6.50	382910.	22.3	8543040.
2004	7.50	300867.	21.5	6461502.
2003	8.50	208000.	20.7	4296016.
2002	9.50	297385.	19.8	5901284.
2001	10.50	38881.	19.0	740568.
2000	11.50	1009930.	18.3	18445002.
1999	12.50	565051.	17.5	9885155.
1998	13.50	478882.	16.7	8016153.
1997	14.50	606322.	16.0	9700698.
1996	15.50	377597.	15.3	5767739.
1995	16.50	356367.	14.6	5190926.
1994	17.50	380738.	13.9	5282553.
1993	18.50	398324.	13.2	5257693.
1992	19.50	253377.	12.5	3178058.
1991	20.50	372883.	11.9	4438813.
1990	21.50	270184.	11.3	3048865.
1989	22.50	205789.	10.7	2198693.
1988	23.50	247713.	10.1	2502832.
1987	24.50	325178.	9.5	3103544.
1986	25.50	293993.	9.0	2647426.
1985	26.50	220482.	8.5	1871314.
1984	27.50	172059.	8.0	1374887.
1983	28.50	87505.	7.5	657659.
1982	29.50	105109.	7.1	742253.
1981	30.50	133227.	6.6	883112.
1980	31.50	91492.	6.2	568722.
1979	32.50	63878.	5.8	371973.
1978	33.50	64995.	5.4	354141.
1977	34.50	48966.	5.1	249321.
1976	35.50	26908.	4.8	127823.
1975	36.50	70433.	4.4	311513.
1974	37.50	33864.	4.1	139097.
1973	38.50	105571.	3.8	401245.
1972	39.50	19120.	3.5	66961.
1971	40.50	14242.	3.2	45676.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300. House Regulators

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 28.0 YRS CURVE: IOWA R2

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	17669.	2.9	51515.
1969	42.50	16700.	2.6	43844.
1968	43.50	8308.	2.3	19403.
1967	44.50	2686.	2.0	5499.
1966	45.50	7112.	1.8	12508.
1965	46.50	3561.	1.5	5248.
1964	47.50	5185.	1.2	6137.
1963	48.50	4973.	0.9	4366.
1962	49.50	281.	0.5	136.
1961	50.50	75293.	0.0	0.
1960	51.50	35463.	0.0	0.
1959	52.50	13913.	0.0	0.
1958	53.50	5216.	0.0	0.
TOTAL:		12215575.	17.1	209384701.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300. House Regulators

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 28.0 YEARS CURVE: IOWA R2

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0179	99.82800	0.17200	49.95700	0.035714	1.78419	1.61219	0.016150
1.50	0.0536	99.45200	0.37600	99.64000	0.035714	3.55859	4.79478	0.048212
2.50	0.0893	99.02986	0.42214	99.24093	0.035714	3.54434	7.91697	0.079945
3.50	0.1250	98.55600	0.47386	98.79293	0.035714	3.52834	10.97145	0.111322
4.50	0.1607	98.02664	0.52936	98.29132	0.035714	3.51042	13.95252	0.142334
5.50	0.1964	97.43578	0.59086	97.73121	0.035714	3.49042	16.85208	0.172956
6.50	0.2321	96.77921	0.65657	97.10750	0.035714	3.46814	19.66365	0.203180
7.50	0.2679	96.05064	0.72857	96.41493	0.035714	3.44341	22.37849	0.232986
8.50	0.3036	95.24400	0.80664	95.64732	0.035714	3.41599	24.98784	0.262356
9.50	0.3393	94.35450	0.88950	94.79925	0.035714	3.38570	27.48404	0.291285
10.50	0.3750	93.37400	0.98050	93.86425	0.035714	3.35231	29.85585	0.319745
11.50	0.4107	92.29614	1.07786	92.83507	0.035714	3.31556	32.09355	0.347724
12.50	0.4464	91.11321	1.18293	91.70468	0.035714	3.27518	34.18581	0.375201
13.50	0.4821	89.81814	1.29507	90.46568	0.035714	3.23093	36.12167	0.402165
14.50	0.5179	88.40307	1.41507	89.11061	0.035714	3.18254	37.88914	0.428595
15.50	0.5536	86.85857	1.54450	87.63082	0.035714	3.12969	39.47432	0.454467
16.50	0.5893	85.17872	1.67985	86.01864	0.035714	3.07211	40.86658	0.479775
17.50	0.6250	83.35200	1.82672	84.26536	0.035714	3.00949	42.04936	0.504479
18.50	0.6607	81.37443	1.97757	82.36321	0.035714	2.94156	43.01334	0.528585
19.50	0.6964	79.23279	2.14164	80.30361	0.035714	2.86800	43.73970	0.552040
20.50	0.7321	76.92536	2.30743	78.07907	0.035714	2.78855	44.22082	0.574854
21.50	0.7679	74.44243	2.48293	75.68389	0.035714	2.70301	44.44091	0.596984
22.50	0.8036	71.78129	2.66114	73.11186	0.035714	2.61115	44.39092	0.618419
23.50	0.8393	68.94122	2.84007	70.36125	0.035714	2.51291	44.06376	0.639150
24.50	0.8750	65.91850	3.02272	67.42986	0.035714	2.40822	43.44926	0.659136
25.50	0.9107	62.72193	3.19657	64.32021	0.035714	2.29716	42.54985	0.678389
26.50	0.9464	59.35593	3.36600	61.03893	0.035714	2.17997	41.36383	0.696878
27.50	0.9821	55.83679	3.51914	57.59636	0.035714	2.05702	39.90171	0.714613
28.50	1.0179	52.18043	3.65636	54.00861	0.035714	1.92889	38.17424	0.731582
29.50	1.0536	48.41221	3.76821	50.29632	0.035714	1.79631	36.20233	0.747793
30.50	1.0893	44.56243	3.84978	46.48732	0.035714	1.66027	34.01282	0.763262
31.50	1.1250	40.66450	3.89793	42.61347	0.035714	1.52192	31.63681	0.777996
32.50	1.1607	36.76029	3.90421	38.71239	0.035714	1.38259	29.11519	0.792028
33.50	1.1964	32.89457	3.86571	34.82743	0.035714	1.24384	26.49332	0.805401
34.50	1.2321	29.11214	3.78243	31.00336	0.035714	1.10727	23.81815	0.818152
35.50	1.2679	25.46014	3.65200	27.28614	0.035714	0.97451	21.14066	0.830343
36.50	1.3036	21.98222	3.47793	23.72118	0.035714	0.84719	18.50993	0.842041
37.50	1.3393	18.71557	3.26665	20.34889	0.035714	0.72675	15.97003	0.853302
38.50	1.3750	15.69900	3.01657	17.20728	0.035714	0.61455	13.56801	0.864259

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300. House Regulators

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 28.0 YEARS CURVE: IOWA R2

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.4107	12.94757	2.75143	14.32328	0.035714	0.51155	11.32813	0.874923
40.50	1.4464	10.48521	2.46236	11.71639	0.035714	0.41844	9.28422	0.885458
41.50	1.4821	8.31057	2.17464	9.39789	0.035714	0.33564	7.44521	0.895873
42.50	1.5179	6.42307	1.88750	7.36682	0.035714	0.26310	5.82082	0.906236
43.50	1.5536	4.81457	1.60850	5.61882	0.035714	0.20067	4.41299	0.916590
44.50	1.5893	3.46893	1.34564	4.14175	0.035714	0.14792	3.21527	0.926876
45.50	1.6250	2.37650	1.09243	2.92271	0.035714	0.10438	2.22722	0.937186
46.50	1.6607	1.51564	0.86086	1.94607	0.035714	0.06950	1.43587	0.947366
47.50	1.6964	0.87664	0.63900	1.19614	0.035714	0.04272	0.83959	0.957731
48.50	1.7321	0.43486	0.44179	0.65575	0.035714	0.02342	0.42122	0.968644
49.50	1.7679	0.16721	0.26764	0.30104	0.035714	0.01075	0.16433	0.982753
50.50	1.8036	0.03886	0.12836	0.10304	0.035714	0.00368	0.03965	1.000000
51.50	1.8393	0.00129	0.03757	0.02007	0.035714	0.00072	0.00280	1.000000
52.50	1.8750	0.00000	0.00129	0.00064	0.035714	0.00002	0.00000	1.000000
		2799.98556	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
2011	647526.	0.	0.	0.	0.	0.	0.	0.	0
2010	582124.	0.	0.	0.	0.	0.	0.	0.	0
2009	657231.	0.	0.	0.	0.	0.	0.	0.	0
2008	529731.	0.	0.	0.	0.	0.	0.	0.	0
2007	508658.	0.	0.	0.	0.	0.	0.	0.	0
2006	465723.	0.	0.	0.	0.	0.	0.	0.	0
2005	382910.	0.	0.	0.	0.	0.	0.	0.	0
2004	300867.	0.	0.	0.	0.	0.	0.	0.	0
2003	208000.	0.	0.	0.	0.	0.	0.	0.	0
2002	297385.	0.	0.	0.	0.	0.	0.	0.	0
2001	38881.	0.	0.	0.	0.	0.	0.	0.	0
2000	1009930.	8937.	0.	454.	227.	0.	0.	0.	91
1999	565051.	1113.	0.	0.	272.	2311.	816.	0.	0
1998	478882.	0.	0.	0.	0.	0.	0.	0.	0
1997	606322.	0.	0.	3753.	0.	0.	0.	0.	1303
1996	377597.	0.	0.	0.	0.	0.	0.	0.	827
1995	356367.	0.	0.	0.	0.	0.	0.	0.	0
1994	380738.	0.	0.	0.	0.	0.	0.	0.	0
1993	398324.	0.	0.	0.	0.	0.	0.	0.	0
1992	253377.	2314.	2255.	0.	0.	0.	0.	0.	0
1991	372883.	0.	832.	3940.	1326.	0.	0.	0.	0
1990	270184.	0.	0.	0.	5096.	422.	0.	0.	0
1989	205789.	0.	0.	0.	0.	2097.	3185.	0.	0
1988	247713.	0.	0.	0.	0.	0.	9004.	0.	1202
1987	325178.	0.	0.	0.	0.	0.	157.	1610.	1167
1986	293993.	0.	0.	0.	15.	1556.	0.	29248.	1848
1985	220482.	10080.	3920.	2799.	0.	2505.	1237.	4283.	11049
1984	172059.	0.	0.	11866.	1069.	0.	5214.	0.	0
1983	87505.	2269.	14583.	0.	18131.	0.	0.	0.	0
1982	105109.	0.	2691.	19841.	188.	22243.	894.	0.	0
1981	133227.	3674.	301.	4310.	18245.	15480.	8938.	0.	418
1980	91492.	11557.	5754.	3198.	3774.	13191.	15271.	6942.	27
1979	63878.	0.	0.	5160.	4836.	7810.	9672.	3844.	4746
1978	64995.	12.	31.	0.	0.	1176.	16493.	3418.	6211
1977	48966.	7895.	129.	0.	0.	206.	316.	11194.	4656
1976	26908.	0.	3267.	245.	0.	616.	1062.	7140.	4152
1975	70433.	2644.	0.	4736.	177.	2134.	390.	11669.	21802
1974	33864.	0.	0.	4397.	9005.	1813.	1109.	702.	1902
1973	105571.	0.	0.	0.	0.	250.	2980.	2168.	591
1972	19120.	912.	0.	0.	0.	0.	0.	406.	1003

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	14242.	0.	0.	66.	0.	0.	0.	1421.	5196
1970	17669.	0.	0.	369.	0.	10.	0.	953.	7823
1969	16700.	4961.	376.	964.	435.	660.	26.	1202.	637
1968	8308.	578.	2414.	3170.	2950.	4229.	2023.	2102.	1276
1967	2686.	0.	0.	0.	0.	0.	3132.	366.	4076
1966	7112.	0.	0.	0.	0.	0.	0.	26.	1917
1965	3561.	0.	0.	0.	0.	0.	0.	113.	591
1964	5185.	0.	0.	0.	0.	0.	0.	0.	1574
1963	4973.	0.	0.	0.	0.	0.	0.	0.	1032
1962	281.	0.	0.	0.	0.	0.	0.	0.	153
1961	75293.	0.	0.	0.	0.	0.	0.	0.	0
1960	35463.	14287.	0.	0.	0.	0.	0.	0.	1851
1959	13913.	0.	0.	95.	0.	0.	0.	0.	627
1958	5216.	0.	4483.	8447.	2593.	0.	0.	0.	0
TOTAL	12215575.	71233.	41036.	77810.	68339.	78709.	81919.	88807.	89748

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	647526.	0.	0.	0.	0.	0.	0.	0.	0
2010	582124.	0.	0.	0.	0.	0.	0.	0.	0
2009	657231.	0.	0.	0.	0.	0.	0.	0.	0
2008	529731.	0.	0.	0.	0.	0.	0.	0.	0
2007	508658.	0.	0.	0.	0.	0.	0.	0.	0
2006	465723.	0.	0.	0.	0.	0.	0.	0.	0
2005	382910.	0.	0.	0.	0.	0.	0.	0.	0
2004	300867.	0.	0.	0.	0.	0.	0.	0.	0
2003	208000.	0.	0.	0.	0.	0.	0.	0.	0
2002	297385.	0.	0.	0.	0.	0.	0.	0.	0
2001	38881.	0.	0.	0.	0.	0.	0.	0.	0
2000	1009930.	822.	0.	0.	0.	0.	0.	0.	0
1999	565051.	364.	0.	0.	0.	0.	0.	0.	0
1998	478882.	585.	0.	0.	0.	0.	0.	0.	0
1997	606322.	1664.	0.	0.	0.	0.	0.	2380.	0
1996	377597.	911.	211.	0.	2484.	0.	0.	77.	0
1995	356367.	88.	0.	0.	7690.	0.	5391.	70.	0
1994	380738.	0.	28.	0.	6109.	0.	10192.	199.	0
1993	398324.	0.	0.	0.	2693.	0.	14644.	260.	0
1992	253377.	0.	0.	0.	3851.	0.	10047.	0.	0
1991	372883.	293.	135.	0.	5702.	0.	8136.	463.	0
1990	270184.	0.	442.	0.	11189.	0.	13554.	29.	0
1989	205789.	0.	0.	0.	4202.	0.	3226.	116.	0
1988	247713.	53.	0.	0.	14531.	0.	9001.	58.	0
1987	325178.	0.	37.	0.	1477.	0.	9031.	145.	0
1986	293993.	31.	1159.	0.	11661.	0.	5906.	173.	0
1985	220482.	4401.	2144.	0.	11671.	0.	11786.	289.	0
1984	172059.	1724.	986.	0.	17637.	0.	6937.	87.	0
1983	87505.	49.	0.	0.	8398.	0.	3085.	260.	0
1982	105109.	342.	0.	0.	13432.	0.	8614.	58.	0
1981	133227.	546.	781.	0.	8450.	0.	3042.	116.	0
1980	91492.	2157.	9.	0.	20496.	0.	4899.	116.	3580
1979	63878.	857.	0.	0.	9352.	0.	10755.	29.	0
1978	64995.	4547.	1070.	0.	5945.	0.	7236.	144.	0
1977	48966.	4861.	3664.	0.	7695.	0.	4730.	29.	0
1976	26908.	737.	985.	0.	4276.	0.	1489.	87.	8640
1975	70433.	37766.	19743.	0.	17055.	0.	1969.	318.	13804
1974	33864.	2348.	587.	0.	24297.	0.	2459.	0.	12806
1973	105571.	4611.	299.	0.	8113.	0.	1286.	0.	8534
1972	19120.	921.	1276.	0.	12037.	0.	2403.	0.	7571

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	14242.	116.	289.	0.	4390.	0.	4055.	0.	3385
1970	17669.	1368.	876.	0.	18031.	0.	846.	0.	0
1969	16700.	2624.	707.	0.	8241.	0.	7069.	0.	932
1968	8308.	787.	294.	0.	2806.	0.	4227.	0.	0
1967	2686.	1153.	533.	0.	2041.	0.	4916.	0.	3322
1966	7112.	131.	0.	0.	5033.	0.	4974.	0.	1002
1965	3561.	164.	659.	0.	8824.	0.	677.	0.	2994
1964	5185.	0.	0.	0.	2622.	0.	2441.	0.	2136
1963	4973.	0.	171.	0.	3421.	0.	165.	0.	1103
1962	281.	0.	0.	0.	1330.	0.	95.	0.	669
1961	75293.	0.	0.	0.	715.	0.	671.	0.	765
1960	35463.	7.	261.	0.	7120.	0.	11091.	0.	936
1959	13913.	966.	901.	0.	1975.	0.	15610.	191.	31535
1958	5216.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	12215575.	77994.	38247.	0.	306992.	0.	216655.	5694.	103714

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	647526.	0.	0.	0.	0.	0.	0.	0.	0
2010	582124.	0.	0.	0.	0.	0.	0.	0.	0
2009	657231.	0.	0.	0.	0.	0.	0.	0.	0
2008	529731.	0.	0.	0.	0.	0.	0.	0.	0
2007	508658.	0.	0.	0.	0.	0.	0.	0.	0
2006	465723.	0.	0.	0.	0.	0.	0.	0.	0
2005	382910.	0.	0.	0.	0.	0.	0.	0.	0
2004	300867.	0.	0.	0.	0.	0.	0.	0.	0
2003	208000.	0.	0.	0.	0.	0.	0.	0.	0
2002	297385.	0.	0.	0.	0.	0.	0.	0.	0
2001	38881.	0.	0.	0.	0.	0.	0.	0.	0
2000	1009930.	0.	0.	0.	0.	0.	0.	0.	0
1999	565051.	0.	0.	0.	0.	0.	0.	0.	0
1998	478882.	0.	0.	0.	0.	0.	0.	0.	0
1997	606322.	0.	0.	0.	0.	0.	0.	0.	0
1996	377597.	0.	0.	0.	0.	0.	0.	0.	0
1995	356367.	0.	0.	0.	0.	0.	0.	0.	0
1994	380738.	0.	0.	0.	0.	0.	0.	0.	0
1993	398324.	0.	0.	0.	0.	0.	0.	0.	0
1992	253377.	0.	1472.	0.	0.	0.	0.	0.	0
1991	372883.	0.	0.	0.	0.	0.	0.	0.	0
1990	270184.	0.	265.	0.	0.	463.	0.	0.	0
1989	205789.	0.	0.	0.	0.	0.	0.	0.	0
1988	247713.	0.	0.	0.	0.	0.	0.	0.	0
1987	325178.	0.	0.	0.	0.	0.	0.	0.	0
1986	293993.	30074.	0.	0.	0.	3261.	178.	0.	0
1985	220482.	0.	0.	0.	2659.	0.	0.	0.	0
1984	172059.	0.	0.	0.	0.	0.	0.	0.	0
1983	87505.	0.	0.	0.	0.	0.	0.	0.	0
1982	105109.	0.	729.	0.	4210.	0.	0.	0.	0
1981	133227.	0.	0.	0.	0.	1645.	1949.	2035.	0
1980	91492.	0.	304.	0.	0.	0.	139.	338.	1352
1979	63878.	0.	0.	0.	0.	0.	0.	0.	0
1978	64995.	0.	0.	0.	0.	0.	0.	0.	0
1977	48966.	0.	694.	0.	0.	0.	0.	0.	0
1976	26908.	0.	1591.	0.	0.	0.	0.	0.	0
1975	70433.	172.	667.	0.	0.	382.	0.	0.	0
1974	33864.	0.	16201.	0.	0.	0.	0.	0.	0
1973	105571.	0.	8870.	0.	0.	607.	977.	1593.	0
1972	19120.	88.	8115.	0.	463.	3032.	0.	473.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	14242.	3482.	22250.	0.	0.	1965.	0.	1422.	0
1970	17669.	2828.	8041.	0.	0.	7527.	0.	0.	0
1969	16700.	2625.	7401.	0.	1876.	33571.	266.	295.	0
1968	8308.	0.	1480.	0.	0.	27724.	0.	179.	0
1967	2686.	0.	2317.	0.	0.	20886.	0.	0.	0
1966	7112.	0.	3492.	0.	0.	4694.	0.	762.	0
1965	3561.	455.	1697.	0.	632.	10772.	0.	62.	0
1964	5185.	0.	850.	0.	381.	13209.	0.	195.	237
1963	4973.	0.	1308.	0.	174.	6261.	11.	1255.	0
1962	281.	0.	0.	0.	4167.	7750.	0.	0.	0
1961	75293.	0.	0.	0.	8875.	6373.	0.	0.	0
1960	35463.	0.	1940.	0.	15058.	18500.	0.	453.	293
1959	13913.	3094.	0.	0.	13415.	28429.	0.	2075.	420
1958	5216.	0.	0.	0.	11469.	0.	0.	0.	0
TOTAL	12215575.	42818.	89684.	0.	63379.	197051.	3520.	11137.	2302

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
2011	647526.	0.	0.	0.	0.	0.
2010	582124.	0.	0.	0.	0.	0.
2009	657231.	0.	0.	0.	0.	0.
2008	529731.	0.	0.	0.	0.	0.
2007	508658.	0.	0.	0.	0.	0.
2006	465723.	0.	0.	0.	0.	0.
2005	382910.	0.	0.	0.	0.	0.
2004	300867.	0.	0.	0.	0.	0.
2003	208000.	0.	0.	0.	0.	0.
2002	297385.	0.	0.	0.	0.	0.
2001	38881.	0.	0.	0.	0.	0.
2000	1009930.	0.	0.	0.	0.	0.
1999	565051.	0.	0.	0.	0.	0.
1998	478882.	0.	0.	0.	0.	0.
1997	606322.	0.	0.	0.	0.	0.
1996	377597.	0.	0.	0.	0.	0.
1995	356367.	0.	0.	0.	0.	0.
1994	380738.	0.	0.	0.	0.	0.
1993	398324.	0.	0.	0.	0.	0.
1992	253377.	0.	0.	0.	0.	0.
1991	372883.	0.	0.	0.	0.	0.
1990	270184.	0.	0.	0.	0.	0.
1989	205789.	0.	0.	0.	0.	0.
1988	247713.	0.	0.	0.	0.	0.
1987	325178.	0.	0.	0.	0.	0.
1986	293993.	483.	0.	0.	0.	0.
1985	220482.	0.	0.	0.	0.	0.
1984	172059.	0.	0.	165.	1104.	0.
1983	87505.	0.	0.	0.	0.	1181.
1982	105109.	0.	0.	0.	0.	1156.
1981	133227.	0.	0.	0.	0.	0.
1980	91492.	1690.	0.	251.	0.	0.
1979	63878.	0.	0.	0.	0.	0.
1978	64995.	228.	342.	0.	0.	0.
1977	48966.	0.	0.	41.	0.	0.
1976	26908.	0.	0.	0.	0.	0.
1975	70433.	0.	0.	0.	0.	0.
1974	33864.	0.	0.	0.	0.	0.
1973	105571.	0.	0.	0.	0.	0.
1972	19120.	0.	0.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1971	14242.	0.	0.	56.	0.	0.
1970	17669.	0.	0.	418.	0.	0.
1969	16700.	0.	0.	114.	0.	0.
1968	8308.	0.	0.	412.	0.	0.
1967	2686.	0.	0.	389.	0.	0.
1966	7112.	0.	0.	0.	0.	0.
1965	3561.	0.	0.	26.	0.	0.
1964	5185.	375.	686.	0.	0.	0.
1963	4973.	0.	2500.	0.	0.	0.
1962	281.	0.	278.	0.	0.	0.
1961	75293.	0.	0.	0.	0.	0.
1960	35463.	30.	5626.	0.	0.	0.
1959	13913.	387.	5252.	2085.	231.	360.
1958	5216.	0.	0.	0.	0.	0.
TOTAL	12215575.	3193.	14684.	3957.	1335.	2697.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	11700062.	4665.	0.00039872	0.99960128	1.00000000
0.5	11227378.	2344.	0.00020878	0.99979122	0.99960128
1.5	10846067.	1542.	0.00014217	0.99985783	0.99939259
2.5	10373831.	6412.	0.00061809	0.99938191	0.99925051
3.5	9958627.	13834.	0.00138915	0.99861085	0.99863288
4.5	9547983.	26431.	0.00276823	0.99723177	0.99724563
5.5	9150905.	18494.	0.00202100	0.99797900	0.99448502
6.5	8810696.	18237.	0.00206987	0.99793013	0.99247517
7.5	8697453.	24772.	0.00284819	0.99715181	0.99042087
8.5	8576171.	42301.	0.00493239	0.99506761	0.98759997
9.5	8382935.	26329.	0.00314079	0.99685921	0.98272874
10.5	8375545.	22478.	0.00268377	0.99731623	0.97964220
11.5	7405472.	27056.	0.00365351	0.99634649	0.97701307
12.5	6880124.	13350.	0.00194037	0.99805963	0.97344354
13.5	6479574.	19218.	0.00296594	0.99703406	0.97155470
14.5	5918993.	15322.	0.00258862	0.99741138	0.96867313
15.5	5571891.	34397.	0.00617331	0.99382669	0.96616560
16.5	5210270.	22387.	0.00429671	0.99570329	0.96020117
17.5	4838372.	53606.	0.01107935	0.98892065	0.95607546
18.5	4416333.	68372.	0.01548162	0.98451838	0.94548277
19.5	4116958.	59855.	0.01453865	0.98546135	0.93084517
20.5	3698943.	48731.	0.01317430	0.98682570	0.91731194
21.5	3472720.	71219.	0.02050813	0.97949187	0.90522699
22.5	3308628.	76348.	0.02307543	0.97692457	0.88666247
23.5	3106128.	54368.	0.01750346	0.98249654	0.86620236
24.5	2758790.	122072.	0.04424838	0.95575162	0.85104082
25.5	2342725.	107463.	0.04587094	0.95412906	0.81338364
26.5	2014780.	138637.	0.06880999	0.93119001	0.77607296
27.5	1704084.	114743.	0.06733412	0.93266588	0.72267139
28.5	1501836.	66691.	0.04440631	0.95559369	0.67401095
29.5	1330036.	72494.	0.05450529	0.94549471	0.64408060
30.5	1124315.	59900.	0.05327688	0.94672312	0.60897480
31.5	972923.	60840.	0.06253321	0.93746679	0.57653052
32.5	848205.	30269.	0.03568595	0.96431405	0.54047822
33.5	752941.	58867.	0.07818275	0.92181725	0.52119074
34.5	645108.	17061.	0.02644673	0.97355327	0.48044261
35.5	601139.	13022.	0.02166221	0.97833779	0.46773647
36.5	517684.	42631.	0.08234946	0.91765054	0.45760427
37.5	441189.	17808.	0.04036365	0.95963635	0.41992080
38.5	317810.	26190.	0.08240773	0.91759227	0.40297126

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38300 House Regulators

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	272500.	12721.	0.04668257	0.95331743	0.36976332
40.5	245537.	6553.	0.02668844	0.97331156	0.35250182
41.5	221315.	7789.	0.03519418	0.96480582	0.34309409
42.5	196826.	1486.	0.00754982	0.99245018	0.33101918
43.5	187032.	2817.	0.01506159	0.98493841	0.32852004
44.5	181529.	627.	0.00345399	0.99654601	0.32357201
45.5	173790.	0.	0.00000000	1.00000000	0.32245439
46.5	170229.	0.	0.00000000	1.00000000	0.32245439
47.5	165044.	0.	0.00000000	1.00000000	0.32245439
48.5	160071.	0.	0.00000000	1.00000000	0.32245439
49.5	159790.	2688.	0.01682208	0.98317792	0.32245439
50.5	81809.	22734.	0.27789119	0.72210881	0.31703004
51.5	23612.	4483.	0.18986109	0.81013891	0.22893019
52.5	5216.	0.	0.00000000	1.00000000	0.18546525
TOTAL		1782654.			36.49561117

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 38.919990 FIT INDEX 0.001570 VARIANCE 0.199554

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
						FITTED RANGE AGE 0.5 TO 52.5			
0.0	11700062.	4665.	0.	0.00039872	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	11227378.	2344.	0.	0.00020878	0.00000000	0.99960128	1.00000000	1.28	0.01284667
1.5	10846067.	1542.	0.	0.00014217	0.00000000	0.99939259	1.00000000	3.85	0.03854041
2.5	10373831.	6412.	0.	0.00061809	0.00000000	0.99925051	1.00000000	6.42	0.06423415
3.5	9958627.	13834.	0.	0.00138915	0.00000000	0.99863288	1.00000000	8.99	0.08992788
4.5	9547983.	26431.	0.	0.00276823	0.00000000	0.99724563	1.00000000	11.56	0.11562162
5.5	9150905.	18494.	7802.	0.00202100	0.00085265	0.99448502	1.00000000	14.13	0.14131536
6.5	8810696.	18237.	19571.	0.00206987	0.00222126	0.99247517	0.99914735	16.70	0.16628728
7.5	8697453.	24772.	31223.	0.00284819	0.00358987	0.99042087	0.99692799	19.27	0.19015360
8.5	8576171.	42301.	42525.	0.00493239	0.00495849	0.98759997	0.99334914	21.84	0.21297589
9.5	8382935.	26329.	53040.	0.00314079	0.00632710	0.98272874	0.98842364	24.41	0.23481174
10.5	8375545.	22478.	64456.	0.00268377	0.00769572	0.97964220	0.98216978	26.98	0.25571505
11.5	7405472.	27056.	67126.	0.00365351	0.00906433	0.97701307	0.97461128	29.55	0.27573620
12.5	6880124.	13350.	71780.	0.00194037	0.01043294	0.97344354	0.96577708	32.12	0.29492243
13.5	6479574.	19218.	76469.	0.00296594	0.01180156	0.97155470	0.95570118	34.69	0.31331801
14.5	5918993.	15322.	77954.	0.00258862	0.01317017	0.96867313	0.94442242	37.26	0.33096449
15.5	5571891.	34397.	81009.	0.00617331	0.01453879	0.96616560	0.93198421	39.83	0.34790075
16.5	5210270.	22387.	82882.	0.00429671	0.01590740	0.96020117	0.91843429	42.39	0.36416341
17.5	4838372.	53606.	83588.	0.01107935	0.01727602	0.95607546	0.90382439	44.96	0.37978680
18.5	4416333.	68372.	82341.	0.01548162	0.01864463	0.94548277	0.88820991	47.53	0.39480319
19.5	4116958.	59855.	82394.	0.01453865	0.02001324	0.93084517	0.87164956	50.10	0.40924297
20.5	3698943.	48731.	79090.	0.01317430	0.02138186	0.91731194	0.85420503	52.67	0.42313463
21.5	3472720.	71219.	79006.	0.02050813	0.02275047	0.90522699	0.83594054	55.24	0.43650508
22.5	3308628.	76348.	79801.	0.02307543	0.02411909	0.88666247	0.81692250	57.81	0.44937970
23.5	3106128.	54368.	79168.	0.01750346	0.02548770	0.86620236	0.79721907	60.38	0.46178228
24.5	2758790.	122072.	74091.	0.04424838	0.02685631	0.85104082	0.77689979	62.95	0.47373528
25.5	2342725.	107463.	66123.	0.04587094	0.02822493	0.81338364	0.75603513	65.52	0.48525996
26.5	2014780.	138637.	59624.	0.06880999	0.02959354	0.77607296	0.73469609	68.09	0.49637635
27.5	1704084.	114743.	52762.	0.06733412	0.03096216	0.72267139	0.71295383	70.66	0.50710335
28.5	1501836.	66691.	48556.	0.04440631	0.03233077	0.67401095	0.69087924	73.23	0.51745880
29.5	1330036.	72494.	44821.	0.05450529	0.03369939	0.64408060	0.66854258	75.80	0.52745957
30.5	1124315.	59900.	39427.	0.05327688	0.03506800	0.60897480	0.64601311	78.37	0.53712168
31.5	972923.	60840.	35450.	0.06253321	0.03643661	0.57653052	0.62335872	80.94	0.54646017

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 38.919990 FIT INDEX 0.001570 VARIANCE 0.199554

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	848205.	30269.	32067.	0.03568595	0.03780523	0.54047822	0.60064564	83.50	0.55548935
33.5	752941.	58867.	29496.	0.07818275	0.03917384	0.52119074	0.57793810	86.07	0.56422277
34.5	645108.	17061.	26154.	0.02644673	0.04054246	0.48044261	0.55529804	88.64	0.57267321
35.5	601139.	13022.	25194.	0.02166221	0.04191107	0.46773647	0.53278489	91.21	0.58085284
36.5	517684.	42631.	22405.	0.08234946	0.04327968	0.45760427	0.51045531	93.78	0.58877317
37.5	441189.	17808.	19698.	0.04036365	0.04464830	0.41992080	0.48836296	96.35	0.59644519
38.5	317810.	26190.	14625.	0.08240773	0.04601691	0.40297126	0.46655839	98.92	0.60387921
39.5	272500.	12721.	12913.	0.04668257	0.04738553	0.36976332	0.44508881	101.49	0.61108511
40.5	245537.	6553.	11971.	0.02668844	0.04875414	0.35250182	0.42399805	104.06	0.61807225
41.5	221315.	7789.	11093.	0.03519418	0.05012276	0.34309409	0.40332638	106.63	0.62484950
42.5	196826.	1486.	10135.	0.00754982	0.05149137	0.33101918	0.38311056	109.20	0.63142535
43.5	187032.	2817.	9887.	0.01506159	0.05285998	0.32852004	0.36338367	111.77	0.63780781
44.5	181529.	627.	9844.	0.00345399	0.05422860	0.32357201	0.34417521	114.34	0.64400455
45.5	173790.	0.	9662.	0.00000000	0.05559721	0.32245439	0.32551107	116.91	0.65002286
46.5	170229.	0.	9697.	0.00000000	0.05696583	0.32245439	0.30741357	119.48	0.65586965
47.5	165044.	0.	9628.	0.00000000	0.05833444	0.32245439	0.28990150	122.05	0.66155154
48.5	160071.	0.	9557.	0.00000000	0.05970305	0.32245439	0.27299026	124.61	0.66707486
49.5	159790.	2688.	9759.	0.01682208	0.06107167	0.32245439	0.25669190	127.18	0.67244560
50.5	81809.	22734.	5108.	0.27789119	0.06244028	0.31703004	0.24101530	129.75	0.67766950
51.5	23612.	4483.	1507.	0.18986109	0.06380890	0.22893019	0.22596624	132.32	0.68275201
52.5	5216.	0.	340.	0.00000000	0.06517751	0.18546525	0.21154758	134.89	0.68769838
TOTAL (EXCEPT AGE 0)	1777989.	1952817.							

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 38.919990 FIT INDEX 0.001570 VARIANCE 0.199554

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 52.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
53.5					0.06654613		0.19775944	137.46	0.69251359
54.5					0.06791474		0.18459931	140.03	0.69720241
55.5					0.06928335		0.17206230	142.60	0.70176941
56.5					0.07065197		0.16014125	145.17	0.70621895
57.5					0.07202058		0.14882695	147.74	0.71055519
58.5					0.07338920		0.13810835	150.31	0.71478213
59.5					0.07475781		0.12797269	152.88	0.71890361
60.5					0.07612642		0.11840573	155.45	0.72292330
61.5					0.07749504		0.10939192	158.02	0.72684471
62.5					0.07886365		0.10091459	160.59	0.73067124
63.5					0.08023227		0.09295610	163.16	0.73440612
64.5					0.08160088		0.08549802	165.72	0.73805249
65.5					0.08296949		0.07852131	168.29	0.74161334
66.5					0.08433811		0.07200643	170.86	0.74509155
67.5					0.08570672		0.06593355	173.43	0.74848994
68.5					0.08707534		0.06028260	176.00	0.75181115
69.5					0.08844395		0.05503347	178.57	0.75505781
70.5					0.08981257		0.05016609	181.14	0.75823243
71.5					0.09118118		0.04566055	183.71	0.76133746
72.5					0.09254979		0.04149717	186.28	0.76437527
73.5					0.09391841		0.03765661	188.85	0.76734815
74.5					0.09528702		0.03411996	191.42	0.77025836
75.5					0.09665564		0.03086877	193.99	0.77310811
76.5					0.09802425		0.02788513	196.56	0.77589954
77.5					0.09939286		0.02515171	199.13	0.77863483
78.5					0.10076148		0.02265181	201.70	0.78131606
79.5					0.10213009		0.02036938	204.27	0.78394533
80.5					0.1034987[illegible]		0.01828906	206.83	0.78652477
81.5					0.10486732		0.01639616	209.40	0.78905650
82.5					0.10623594		0.01467674	211.97	0.79154266
83.5					0.10760455		0.01311754	214.54	0.79398544
84.5					0.10897316		0.01170604	217.11	0.79638712
85.5					0.11034178		0.01043039	219.68	0.79875004

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 38.919990 FIT INDEX 0.001570 VARIANCE 0.199554

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
86.5					0.11171039		0.00927948	222.25	0.80107667
87.5					0.11307901		0.00824287	224.82	0.80336962
88.5					0.11444762		0.00731077	227.39	0.80563166
89.5					0.11581623		0.00647407	229.96	0.80786581
90.5					0.11718485		0.00572427	232.53	0.81007531
91.5					0.11855346		0.00505347	235.10	0.81226374
92.5					0.11992208		0.00445437	237.67	0.81443507
93.5					0.12129069		0.00392019	240.24	0.81659372
94.5					0.12265931		0.00344471	242.81	0.81874466
95.5					0.12402792		0.00302218	245.38	0.82089353
96.5					0.12539653		0.00264735	247.94	0.82304675
97.5					0.12676515		0.00231538	250.51	0.82521168
98.5					0.12813376		0.00202187	253.08	0.82739682
99.5					0.12950238		0.00176280	255.65	0.82961198
100.5					0.13087099		0.00153451	258.22	0.83186860
101.5					0.13223960		0.00133369	260.79	0.83418002
102.5					0.13360822		0.00115732	263.36	0.83656190
103.5					0.13497683		0.00100270	265.93	0.83903261
104.5					0.13634545		0.00086735	268.50	0.84161386
105.5					0.13771406		0.00074909	271.07	0.84433125
106.5					0.13908268		0.00064593	273.64	0.84721517
107.5					0.14045129		0.00055610	276.21	0.85030168
108.5					0.14181990		0.00047799	278.78	0.85363372
109.5					0.14318852		0.00041020	281.35	0.85726250
110.5					0.14455713		0.00035147	283.92	0.86124920
111.5					0.14592575		0.00030066	286.49	0.86566705
112.5					0.14729436		0.00025679	289.05	0.87060387
113.5					0.14866297		0.00021896	291.62	0.87616517
114.5					0.15003159		0.00018641	294.19	0.88247786
115.5					0.15140020		0.00015844	296.76	0.88969491
116.5					0.15276882		0.00013445	299.33	0.89800096
117.5					0.15413743		0.00011391	301.90	0.90761918
118.5					0.15550605		0.00009636	304.47	0.91881983

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 38.919990 FIT INDEX 0.001570 VARIANCE 0.199554

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
119.5					0.15687466		0.00008137	307.04	0.93193060
120.5					0.15824327		0.00006861	309.61	0.94734945
121.5					0.15961189		0.00005775	312.18	0.96556042
122.5							0.00004853	314.75	0.98715313

EQUIVALENT H CURVE IS 2.08

EQUIVALENT L CURVE IS 2.00

EQUIVALENT R CURVE IS 1.00

EQUIVALENT S CURVE IS 0.50

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 37.907140 FIT INDEX 0.001579 VARIANCE 0.156646

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
				FITTED RANGE AGE 0.5 TO 52.5					
0.0	11700062.	4665.	0.	0.00039872	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	11227378.	2344.	0.	0.00020878	0.00000000	0.99960128	1.00000000	1.32	0.01319023
1.5	10846067.	1542.	0.	0.00014217	0.00000000	0.99939259	1.00000000	3.96	0.03957049
2.5	10373831.	6412.	0.	0.00061809	0.00000000	0.99925051	1.00000000	6.60	0.06595075
3.5	9958627.	13834.	0.	0.00138915	0.00000000	0.99863288	1.00000000	9.23	0.09233100
4.5	9547983.	26431.	2348.	0.00276823	0.00024591	0.99724563	1.00000000	11.87	0.11871126
5.5	9150905.	18494.	10754.	0.00202100	0.00117521	0.99448502	0.99975409	14.51	0.14487799
6.5	8810696.	18237.	18873.	0.00206987	0.00214204	0.99247517	0.99857917	17.15	0.17026769
7.5	8697453.	24772.	27366.	0.00284819	0.00314640	0.99042087	0.99644018	19.79	0.19489512
8.5	8576171.	42301.	35920.	0.00493239	0.00418830	0.98759997	0.99330498	22.42	0.21877586
9.5	8382935.	26329.	44159.	0.00314079	0.00526773	0.98272874	0.98914472	25.06	0.24192584
10.5	8375545.	22478.	53475.	0.00268377	0.00638469	0.97964220	0.98393418	27.70	0.26436148
11.5	7405472.	27056.	55831.	0.00365351	0.00753918	0.97701307	0.97765207	30.34	0.28609950
12.5	6880124.	13350.	60072.	0.00194037	0.00873121	0.97344354	0.97028137	32.98	0.30715683
13.5	6479574.	19218.	64542.	0.00296594	0.00996077	0.97155470	0.96180964	35.61	0.32755064
14.5	5918993.	15322.	66458.	0.00258862	0.01122786	0.96867313	0.95222928	38.25	0.34729809
15.5	5571891.	34397.	69830.	0.00617331	0.01253248	0.96616560	0.94153778	40.89	0.36641644
16.5	5210270.	22387.	72291.	0.00429671	0.01387464	0.96020117	0.92973798	43.53	0.38492295
17.5	4838372.	53606.	73806.	0.01107935	0.01525433	0.95607546	0.91683819	46.17	0.40283472
18.5	4416333.	68372.	73627.	0.01548162	0.01667155	0.94548277	0.90285244	48.80	0.42016882
19.5	4116958.	59855.	74625.	0.01453865	0.01812631	0.93084517	0.88780049	51.44	0.43694215
20.5	3698943.	48731.	72568.	0.01317430	0.01961860	0.91731194	0.87170794	54.08	0.45317132
21.5	3472720.	71219.	73443.	0.02050813	0.02114842	0.90522699	0.85460625	56.72	0.46887284
22.5	3308628.	76348.	75158.	0.02307543	0.02271577	0.88666247	0.83653268	59.36	0.48406290
23.5	3106128.	54368.	75543.	0.01750346	0.02432066	0.86620236	0.81753020	61.99	0.49875745
24.5	2758790.	122072.	71627.	0.04424838	0.02596308	0.85104082	0.79764733	64.63	0.51297209
25.5	2342725.	107463.	64760.	0.04587094	0.02764303	0.81338364	0.77693795	67.27	0.52672215
26.5	2014780.	138637.	59155.	0.06880999	0.02936051	0.77607296	0.75546103	69.91	0.54002261
27.5	1704084.	114743.	53023.	0.06733412	0.03111553	0.72267139	0.73328031	72.55	0.55288816
28.5	1501836.	66691.	49423.	0.04440631	0.03290808	0.67401095	0.71046390	75.18	0.56533310
29.5	1330036.	72494.	46203.	0.05450529	0.03473816	0.64408060	0.68708390	77.82	0.57737139
30.5	1124315.	59900.	41156.	0.05327688	0.03660577	0.60897480	0.66321587	80.46	0.58901665
31.5	972923.	60840.	37468.	0.06253321	0.03851092	0.57653052	0.63893834	83.10	0.60028208

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 37.907140 FIT INDEX 0.001579 VARIANCE 0.156646

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	848205.	30269.	34313.	0.03568595	0.04045360	0.54047822	0.61433224	85.74	0.61118057
33.5	752941.	58867.	31950.	0.07818275	0.04243381	0.52119074	0.58948029	88.37	0.62172463
34.5	645108.	17061.	28676.	0.02644673	0.04445156	0.48044261	0.56446639	91.01	0.63192642
35.5	601139.	13022.	27957.	0.02166221	0.04650684	0.46773647	0.53937498	93.65	0.64179769
36.5	517684.	42631.	25159.	0.08234946	0.04859965	0.45760427	0.51429035	96.29	0.65134990
37.5	441189.	17808.	22382.	0.04036365	0.05072999	0.41992080	0.48929602	98.93	0.66059411
38.5	317810.	26190.	16811.	0.08240773	0.05289787	0.40297126	0.46447404	101.56	0.66954105
39.5	272500.	12721.	15016.	0.04668257	0.05510328	0.36976332	0.43990435	104.20	0.67820111
40.5	245537.	6553.	14081.	0.02668844	0.05734622	0.35250182	0.41566418	106.84	0.68658431
41.5	221315.	7789.	13196.	0.03519418	0.05962669	0.34309409	0.39182741	109.48	0.69470039
42.5	196826.	1486.	12192.	0.00754982	0.06194470	0.33101918	0.36846404	112.12	0.70255874
43.5	187032.	2817.	12026.	0.01506159	0.06430024	0.32852004	0.34563965	114.75	0.71016842
44.5	181529.	627.	12107.	0.00345399	0.06669331	0.32357201	0.32341493	117.39	0.71753819
45.5	173790.	0.	12013.	0.00000000	0.06912392	0.32245439	0.30184532	120.03	0.72467653
46.5	170229.	0.	12187.	0.00000000	0.07159205	0.32245439	0.28098059	122.67	0.73159159
47.5	165044.	0.	12229.	0.00000000	0.07409772	0.32245439	0.26086461	125.31	0.73829128
48.5	160071.	0.	12268.	0.00000000	0.07664093	0.32245439	0.24153514	127.94	0.74478318
49.5	159790.	2688.	12659.	0.01682208	0.07922166	0.32245439	0.22302366	130.58	0.75107467
50.5	81809.	22734.	6695.	0.27789119	0.08183993	0.31703004	0.20535536	133.22	0.75717281
51.5	23612.	4483.	1995.	0.18986109	0.08449573	0.22893019	0.18854909	135.86	0.76308445
52.5	5216.	0.	455.	0.00000000	0.08718906	0.18546525	0.17261750	138.50	0.76881614
TOTAL (EXCEPT AGE 0)	1777989.	1859870.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 37.907140 FIT INDEX 0.001579 VARIANCE 0.156646

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
53.5					0.08991993		0.15756714	141.13	0.77437427
54.5					0.09268833		0.14339871	143.77	0.77976496
55.5					0.09549426		0.13010733	146.41	0.78499412
56.5					0.09833772		0.11768282	149.05	0.79006744
57.5					0.10121872		0.10611016	151.69	0.79499044
58.5					0.10413725		0.09536983	154.32	0.79976842
59.5					0.10709331		0.08543828	156.96	0.80440653
60.5					0.11008691		0.07628841	159.60	0.80890971
61.5					0.11311803		0.06789005	162.24	0.81328279
62.5					0.11618669		0.06021046	164.88	0.81753041
63.5					0.11929289		0.05321481	167.51	0.82165708
64.5					0.12243661		0.04686666	170.15	0.82566719
65.5					0.12561787		0.04112847	172.79	0.82956500
66.5					0.12883666		0.03596200	175.43	0.83335471
67.5					0.13209298		0.03132877	178.07	0.83704043
68.5					0.13538684		0.02719046	180.70	0.84062620
69.5					0.13871823		0.02350923	183.34	0.84411606
70.5					0.14208715		0.02024807	185.98	0.84751402
71.5					0.14549360		0.01737108	188.62	0.85082417
72.5					0.14893759		0.01484370	191.26	0.85405066
73.5					0.15241911		0.01263291	193.89	0.85719780
74.5					0.15593816		0.01070742	196.53	0.86027012
75.5					0.15949475		0.00903772	199.17	0.86327250
76.5					0.16308887		0.00759625	201.81	0.86621023
77.5					0.16672052		0.00635739	204.45	0.86908924
78.5					0.17038970		0.00529748	207.09	0.87191626
79.5					0.17409641		0.00439485	209.72	0.87469907
80.5					0.17784066		0.00362972	212.36	0.87744692
81.5					0.18162244		0.00298421	215.00	0.88017096
82.5					0.18544176		0.00244221	217.64	0.88288486
83.5					0.18929860		0.00198932	220.28	0.88560562
84.5					0.19319298		0.00161275	222.91	0.88835470
85.5					0.19712489		0.00130117	225.55	0.89115950

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EXPERIENCE BAND 1983 TO 2011 DEGREE 2 AVG LIFE 37.907140 FIT INDEX 0.001579 VARIANCE 0.156646

FITTED RANGE AGE 0.5 TO 52.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
86.5					0.20109434		0.00104468	228.19	0.89405533
87.5					0.20510131		0.00083460	230.83	0.89708814
88.5					0.20914582		0.00066342	233.47	0.90031822
89.5					0.21322787		0.00052467	236.10	0.90382527
90.5					0.21734744		0.00041280	238.74	0.90771538
91.5					0.22150455		0.00032308	241.38	0.91213060
92.5					0.22569919		0.00025151	244.02	0.91726244
93.5					0.22993136		0.00019475	246.66	0.92337047
94.5					0.23420107		0.00014997	249.29	0.93080864
95.5					0.23850830		0.00011485	251.93	0.94006227
96.5					0.24285308		0.00008745	254.57	0.95180062
97.5					0.24723538		0.00006622	257.21	0.96695175
98.5							0.00004984	259.85	0.98680987

EQUIVALENT H CURVE IS 2.44

EQUIVALENT L CURVE IS 2.00

EQUIVALENT R CURVE IS 1.50

EQUIVALENT S CURVE IS 1.00

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38300 House Regulators

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = -0.66747329E-02 0.13686142E-02 (X)

QUADRATIC YEST(I) = -0.34714649E-02 0.74163465E-03 (X) 0.18766334E-04 (X^2)

CUBIC YEST(I) = 0.58306009E-02 -0.24137050E-02 (X) 0.22828782E-03 (X^2) -0.34630304E-05 (X^3)

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38300 House Regulators

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	76.71	0.000531	337.00	1.80	1.50	0.00	1.00
1984	1988	79.43	0.000489	338.03	1.79	1.50	0.00	1.00
1985	1989	72.64	0.000584	339.32	1.78	1.50	0.00	1.00
1986	1990	80.07	0.000530	342.82	1.73	1.50	0.00	0.50
1987	1991	32.37	0.003461	307.39	2.20	2.00	0.50	1.50
1988	1992	29.58	0.003727	299.18	2.32	2.00	0.50	1.50
1989	1993	30.41	0.002960	297.59	2.31	2.00	0.50	1.50
1990	1994	28.52	0.003635	296.27	2.34	2.00	1.00	1.50
1991	1995	28.47	0.003774	300.35	2.28	2.00	0.50	1.50
1992	1996	32.45	0.003261	306.63	2.21	2.00	0.50	1.50
1993	1997	37.98	0.002519	317.28	2.06	2.00	0.50	1.00
1994	1998	31.45	0.002449	322.72	1.95	1.50	0.00	1.00
1995	1999	36.39	0.001828	331.15	1.85	1.50	0.00	1.00
1996	2000	28.83	0.002017	320.84	2.01	1.50	0.00	1.00
1997	2001	33.02	0.001735	334.62	1.82	1.50	0.00	1.00
1998	2002	32.82	0.001787	330.62	1.86	1.50	0.00	1.00
1999	2003	36.61	0.002135	320.92	2.00	1.50	0.00	1.00
2000	2004	34.17	0.002455	314.65	2.10	2.00	0.50	1.50
2001	2005	42.22	0.002313	311.45	2.13	2.00	0.50	1.50
2002	2006	39.56	0.002815	307.11	2.19	2.00	0.50	1.50
2003	2007	39.27	0.003034	306.86	2.20	2.00	0.50	1.50
2004	2008	40.82	0.002676	307.47	2.19	2.00	0.50	1.50
2005	2009	42.62	0.002750	308.53	2.17	2.00	0.50	1.50
2006	2010	45.84	0.002674	310.89	2.15	2.00	0.50	1.50
2007	2011	46.90	0.002438	308.12	2.18	2.00	0.50	1.50

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38300 House Regulators

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	46.90	0.002438	308.12	2.18	2.00	0.50	1.50
2006	2011	46.01	0.002407	309.75	2.17	2.00	0.50	1.50
2005	2011	45.05	0.002313	309.68	2.17	2.00	0.50	1.50
2004	2011	43.76	0.002293	307.37	2.19	2.00	0.50	1.50
2003	2011	43.19	0.002354	309.11	2.18	2.00	0.50	1.50
2002	2011	43.51	0.002283	309.11	2.17	2.00	0.50	1.50
2001	2011	44.61	0.002134	310.45	2.15	2.00	0.50	1.50
2000	2011	40.74	0.002155	312.94	2.12	2.00	0.50	1.50
1999	2011	41.56	0.002064	314.02	2.10	2.00	0.50	1.50
1998	2011	40.11	0.002030	317.86	2.05	2.00	0.50	1.00
1997	2011	40.73	0.001963	317.92	2.04	2.00	0.00	1.00
1996	2011	39.70	0.001909	316.12	2.07	2.00	0.50	1.00
1995	2011	39.93	0.001848	316.80	2.05	2.00	0.50	1.00
1994	2011	39.39	0.001802	318.58	2.05	2.00	0.50	1.00
1993	2011	39.79	0.001763	317.90	2.05	2.00	0.50	1.00
1992	2011	39.26	0.001760	317.13	2.07	2.00	0.50	1.00
1991	2011	37.53	0.001823	313.05	2.10	2.00	0.50	1.00
1990	2011	37.84	0.001774	315.82	2.09	2.00	0.50	1.00
1989	2011	38.04	0.001728	314.16	2.09	2.00	0.50	1.00
1988	2011	38.27	0.001677	314.86	2.08	2.00	0.50	1.00
1987	2011	38.48	0.001630	315.78	2.08	2.00	0.50	1.00
1986	2011	38.52	0.001611	315.40	2.08	2.00	0.50	1.00
1985	2011	38.66	0.001590	314.29	2.08	2.00	0.50	1.00
1984	2011	38.80	0.001577	315.73	2.08	2.00	0.50	1.00
1983	2011	38.92	0.001570	314.75	2.08	2.00	0.50	1.00

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38300 House Regulators

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	48.48	0.000466	211.45	3.36	3.00	2.00	3.00
1984	1988	52.67	0.000459	217.39	3.18	3.00	2.00	2.50
1985	1989	53.27	0.000571	228.06	2.91	3.00	1.50	2.50
1986	1990	61.82	0.000531	243.44	2.59	3.00	1.00	2.00
1987	1991	31.64	0.003352	210.20	3.33	3.00	2.00	3.00
1988	1992	29.97	0.003351	201.85	3.58	4.00	2.00	3.00
1989	1993	30.64	0.002649	204.00	3.49	4.00	2.00	3.00
1990	1994	29.03	0.003566	222.18	3.08	3.00	2.00	2.50
1991	1995	28.79	0.003761	237.92	2.82	3.00	1.50	2.00
1992	1996	32.13	0.003180	222.50	3.04	3.00	2.00	2.50
1993	1997	36.56	0.002535	253.04	2.54	2.00	1.00	2.00
1994	1998	30.80	0.002403	258.09	2.31	2.00	0.50	1.50
1995	1999	34.27	0.001720	243.67	2.37	2.00	1.00	1.50
1996	2000	28.74	0.001951	262.68	2.28	2.00	0.50	1.50
1997	2001	32.50	0.001737	290.81	2.01	1.50	0.00	1.00
1998	2002	32.46	0.001797	294.21	2.02	1.50	0.00	1.00
1999	2003	36.53	0.002157	313.40	2.03	1.50	0.00	1.00
2000	2004	33.98	0.002483	289.87	2.22	2.00	0.50	1.50
2001	2005	41.37	0.002340	276.79	2.35	2.00	1.00	1.50
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	44.95	0.002704	279.20	2.35	2.00	1.00	1.50
2007	2011	44.47	0.002446	237.25	2.81	3.00	1.50	2.00

PGS - 2011 CASE

P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38300 House Regulators

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	44.47	0.002446	237.25	2.81	3.00	1.50	2.00
2006	2011	44.11	0.002427	248.24	2.65	3.00	1.50	2.00
2005	2011	43.65	0.002338	260.02	2.52	2.00	1.00	2.00
2004	2011	42.53	0.002317	257.47	2.54	2.00	1.00	2.00
2003	2011	42.09	0.002380	260.16	2.51	2.00	1.00	2.00
2002	2011	42.33	0.002308	261.02	2.51	2.00	1.00	2.00
2001	2011	43.11	0.002156	258.62	2.53	2.00	1.00	2.00
2000	2011	40.09	0.002181	278.15	2.33	2.00	0.50	1.50
1999	2011	40.73	0.002088	273.75	2.35	2.00	1.00	1.50
1998	2011	39.29	0.002050	273.59	2.31	2.00	0.50	1.50
1997	2011	39.78	0.001981	270.25	2.33	2.00	0.50	1.50
1996	2011	38.84	0.001927	269.07	2.37	2.00	1.00	1.50
1995	2011	38.99	0.001864	267.98	2.35	2.00	1.00	1.50
1994	2011	38.63	0.001820	273.10	2.31	2.00	0.50	1.50
1993	2011	38.93	0.001780	270.99	2.32	2.00	0.50	1.50
1992	2011	38.38	0.001775	267.09	2.38	2.00	1.00	1.50
1991	2011	36.97	0.001843	271.86	2.35	2.00	1.00	1.50
1990	2011	37.20	0.001793	270.15	2.36	2.00	1.00	1.50
1989	2011	37.35	0.001745	269.11	2.37	2.00	1.00	1.50
1988	2011	37.51	0.001692	267.93	2.38	2.00	1.00	1.50
1987	2011	37.65	0.001643	266.96	2.40	2.00	1.00	1.50
1986	2011	37.66	0.001623	264.18	2.41	2.00	1.00	1.50
1985	2011	37.75	0.001601	263.58	2.42	2.00	1.00	1.50
1984	2011	37.84	0.001587	262.97	2.43	2.00	1.00	1.50
1983	2011	37.91	0.001579	259.85	2.44	2.00	1.00	1.50

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38300 House Regulators

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	42.16	0.000461	171.94	4.47	4.00	3.00	4.00
1984	1988	48.02	0.000463	186.36	3.76	4.00	3.00	3.00
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	1992	30.13	0.003382	184.21	3.87	4.00	3.00	3.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	33.88	0.001713	208.11	2.56	3.00	1.00	2.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38300 House Regulators

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1983	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 383.00 - House Regulators
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	41,037	0	0	759	2	759	2
2009	77,810	0	0	633	1	633	1
2008	72,529	0	0	1,064	1	1,064	1
2007	84,798	228	0	1,186	1	1,414	2
2006	85,790	240	0	30,974	36	31,214	36
2005	90,468	1,100	1	0	0	1,100	1
2004	91,630	(2,074)	(2)	0	0	(2,074)	(2)
2003	78,471	(7,252)	(9)	433	1	(6,818)	(9)
2002	38,383	(210)	(1)	0	0	(210)	(1)
2001	0	0	0	0	0	0	0
2000	306,995	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	216,655	(20)	(0)	0	0	(20)	(0)
1997	5,692	(1,598)	(28)	0	0	(1,598)	(28)
1996	121,246	0	0	0	0	0	0
1995	42,817	0	0	0	0	0	0
1994	89,686	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	76,352	0	0	0	0	0	0
1991	197,321	0	0	10	0	10	0
1990	6,231	0	0	0	0	0	0
1989	22,589	0	0	0	0	0	0
1988	6,841	0	0	0	0	0	0
1987	7,213	0	0	504	7	504	7
1986	28,764	(11)	(0)	0	0	(11)	(0)
1985	5,002	(86)	(2)	0	0	(86)	(2)
1984	1,335	(115)	(9)	0	0	(115)	(9)
1983	5,748	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	1,801,404	**(9,798)**	**(1)**	**35,564**	**2**	**25,766**	**1**

Peoples Gas System
Net Salvage Analysis
Account - 383.00 - House Regulators
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	361,964	468	0	34,616	10	35,085	10
2009	411,396	1,568	0	33,858	8	35,426	9
2008	425,216	(506)	(0)	33,224	8	32,719	8
2007	431,158	(7,757)	(2)	32,594	8	24,836	6
2006	384,743	(8,196)	(2)	31,408	8	23,212	6
2005	298,953	(8,436)	(3)	433	0	(8,002)	(3)
2004	515,480	(9,536)	(2)	433	0	(9,102)	(2)
2003	423,850	(7,462)	(2)	433	0	(7,029)	(2)
2002	562,033	(230)	(0)	0	0	(230)	(0)
2001	529,341	(1,618)	(0)	0	0	(1,618)	(0)
2000	650,587	(1,618)	(0)	0	0	(1,618)	(0)
1999	386,409	(1,618)	(0)	0	0	(1,618)	(0)
1998	476,095	(1,618)	(0)	0	0	(1,618)	(0)
1997	259,440	(1,598)	(1)	0	0	(1,598)	(1)
1996	330,101	0	0	0	0	0	0
1995	406,176	0	0	10	0	10	0
1994	369,590	0	0	10	0	10	0
1993	302,493	0	0	10	0	10	0
1992	309,334	0	0	10	0	10	0
1991	240,196	0	0	514	0	514	0
1990	71,639	(11)	(0)	504	1	493	1
1989	70,410	(98)	(0)	504	1	406	1
1988	49,156	(213)	(0)	504	1	291	1
1987	48,063	(213)	(0)	504	1	291	1
1986	40,849	(213)	(1)	0	0	(213)	(1)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400. House Regulator Installs

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 27.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: -20.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	717487.	0.018500	13274.	704213.
2010	1.50	678514.	0.055492	37652.	640862.
2009	2.50	690344.	0.092452	63824.	626520.
2008	3.50	752691.	0.129364	97371.	655320.
2007	4.50	892599.	0.166223	148371.	744228.
2006	5.50	1625403.	0.202985	329932.	1295471.
2005	6.50	945323.	0.239625	226523.	718800.
2004	7.50	920215.	0.276102	254073.	666142.
2003	8.50	1238121.	0.312359	386738.	851383.
2002	9.50	847856.	0.348343	295345.	552511.
2001	10.50	0.	0.383976	0.	0.
2000	11.50	1257381.	0.419180	527069.	730312.
1999	12.50	524548.	0.453872	238077.	286471.
1998	13.50	405028.	0.487962	197638.	207390.
1997	14.50	513130.	0.521346	267518.	245612.
1996	15.50	482214.	0.553947	267121.	215093.
1995	16.50	374273.	0.585685	219206.	155067.
1994	17.50	411645.	0.616478	253770.	157875.
1993	18.50	337661.	0.646268	218220.	119441.
1992	19.50	320813.	0.675041	216562.	104251.
1991	20.50	218613.	0.702773	153635.	64978.
1990	21.50	361280.	0.729468	263542.	97738.
1989	22.50	252167.	0.755210	190439.	61728.
1988	23.50	221167.	0.779987	172507.	48660.
1987	24.50	150630.	0.803408	121017.	29613.
1986	25.50	156826.	0.824931	129379.	27447.
1985	26.50	185404.	0.844333	156552.	28852.
1984	27.50	135045.	0.861533	116346.	18699.
1983	28.50	95046.	0.876623	83319.	11727.
1982	29.50	87901.	0.889981	78230.	9671.
1981	30.50	89137.	0.901953	80397.	8740.
1980	31.50	74722.	0.912961	68218.	6504.
1979	32.50	71564.	0.923279	66074.	5490.
1978	33.50	44285.	0.933085	41322.	2963.
1977	34.50	29073.	0.942608	27404.	1669.
1976	35.50	28350.	0.951772	26983.	1367.
1975	36.50	35763.	0.960353	34345.	1418.
1974	37.50	23743.	0.968179	22987.	756.
1973	38.50	45969.	0.975201	44829.	1140.
1972	39.50	15930.	0.981011	15627.	303.
1971	40.50	15722.	0.998652	15701.	21.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400. House Regulator Installs

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 27.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: -20.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	9950.	1.000000	9950.	0.
1969	42.50	7931.	1.000000	7931.	0.
1968	43.50	2623.	1.000000	2623.	0.
1967	44.50	4632.	1.000000	4632.	0.
1966	45.50	6821.	1.000000	6821.	0.
1965	46.50	4414.	1.000000	4414.	0.
1964	47.50	4986.	1.000000	4986.	0.
1963	48.50	5160.	1.000000	5160.	0.
1962	49.50	33084.	1.000000	33084.	0.
1961	50.50	6419.	1.000000	6419.	0.
1960	51.50	10219.	1.000000	10219.	0.
1959	52.50	4575.	1.000000	4575.	0.
1958	53.50	7984.	1.000000	7984.	0.
1957	54.50	5945.	1.000000	5945.	0.
1956	55.50	3430.	1.000000	3430.	0.
1955	56.50	3598.	1.000000	3598.	0.
1954	57.50	691.	1.000000	691.	0.
SUBTOTAL :			0.383605	6289602.	10106443.
NET SALVAGE: -20.0%				1257920.	-1257920.
TOTAL :		16396045.	0.460326	7547522.	8848523.

WEIGHTED AGE: 11.2 YEARS
REMAINING LIFE: 16.6 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400. House Regulator Installs

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 27.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: -20.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	717487.	0.037037	26573.
2010	1.50 - 2.50	678514.	0.037037	25130.
2009	2.50 - 3.50	690344.	0.037037	25568.
2008	3.50 - 4.50	752691.	0.037037	27877.
2007	4.50 - 5.50	892599.	0.037037	33059.
2006	5.50 - 6.50	1625403.	0.037037	60200.
2005	6.50 - 7.50	945323.	0.037037	35012.
2004	7.50 - 8.50	920215.	0.037037	34082.
2003	8.50 - 9.50	1238121.	0.037037	45856.
2002	9.50 - 10.50	847856.	0.037037	31402.
2001	10.50 - 11.50	0.	0.037037	0.
2000	11.50 - 12.50	1257381.	0.037037	46569.
1999	12.50 - 13.50	524548.	0.037037	19428.
1998	13.50 - 14.50	405028.	0.037037	15001.
1997	14.50 - 15.50	513130.	0.037037	19005.
1996	15.50 - 16.50	482214.	0.037037	17860.
1995	16.50 - 17.50	374273.	0.037037	13862.
1994	17.50 - 18.50	411645.	0.037037	15246.
1993	18.50 - 19.50	337661.	0.037037	12506.
1992	19.50 - 20.50	320813.	0.037037	11882.
1991	20.50 - 21.50	218613.	0.037037	8097.
1990	21.50 - 22.50	361280.	0.037037	13381.
1989	22.50 - 23.50	252167.	0.037037	9339.
1988	23.50 - 24.50	221167.	0.037037	8191.
1987	24.50 - 25.50	150630.	0.037037	5579.
1986	25.50 - 26.50	156826.	0.037037	5808.
1985	26.50 - 27.50	185404.	0.037037	6867.
1984	27.50 - 28.50	135045.	0.037037	5002.
1983	28.50 - 29.50	95046.	0.037037	3520.
1982	29.50 - 30.50	87901.	0.037037	3256.
1981	30.50 - 31.50	89137.	0.037037	3301.
1980	31.50 - 32.50	74722.	0.037037	2767.
1979	32.50 - 33.50	71564.	0.037037	2651.
1978	33.50 - 34.50	44285.	0.037037	1640.
1977	34.50 - 35.50	29073.	0.037037	1077.
1976	35.50 - 36.50	28350.	0.037037	1050.
1975	36.50 - 37.50	35763.	0.037037	1325.
1974	37.50 - 38.50	23743.	0.037037	879.
1973	38.50 - 39.50	45969.	0.037037	1703.
1972	39.50 - 40.50	15930.	0.037037	590.
1971	40.50 - 41.50	15722.	0.037037	582.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400. House Regulator Installs

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 27.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: -20.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	9950.	0.037037	369.
1969	42.50 - 43.50	7931.	0.037037	294.
1968	43.50 - 44.50	2623.	0.037037	97.
1967	44.50 - 45.50	4632.	0.037037	172.
1966	45.50 - 46.50	6821.	0.037037	253.
1965	46.50 - 47.50	4414.	0.037037	163.
1964	47.50 - 48.50	4986.	0.037037	185.
1963	48.50 - 49.50	5160.	0.037037	191.
1962	49.50 - 50.50	33084.	0.037037	1225.
1961	50.50 - 51.50	6419.	0.037037	238.
1960	51.50 - 52.50	10219.	0.037037	378.
1959	52.50 - 53.50	4575.	0.037037	169.
1958	53.50 - 54.50	7984.	0.037037	296.
1957	54.50 - 55.50	5945.	0.037037	220.
1956	55.50 - 56.50	3430.	0.037037	127.
1955	56.50 - 57.50	3598.	0.037037	133.
1954	57.50 - 58.50	691.	0.037037	26.
SUBTOTAL :		16396045.	0.037037	607258.
NET SALVAGE: -20.0 %				121452.
TOTAL :		16396045.	0.044444	728710.

MONTHLY RATE: 0.003704

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400. House Regulator Installs

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 27.0 YRS CURVE: IOWA R4

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	717487.	26.5	19013852.
2010	1.50	678514.	25.5	17303358.
2009	2.50	690344.	24.5	16916121.
2008	3.50	752691.	23.5	17693711.
2007	4.50	892599.	22.5	20094252.
2006	5.50	1625403.	21.5	34977879.
2005	6.50	945323.	20.5	19407678.
2004	7.50	920215.	19.5	17985918.
2003	8.50	1238121.	18.6	22987445.
2002	9.50	847856.	17.6	14917876.
2001	10.50	0.	16.6	0.
2000	11.50	1257381.	15.7	19718513.
1999	12.50	524548.	14.7	7734742.
1998	13.50	405028.	13.8	5599547.
1997	14.50	513130.	12.9	6631551.
1996	15.50	482214.	12.0	5807544.
1995	16.50	374273.	11.2	4186822.
1994	17.50	411645.	10.4	4262639.
1993	18.50	337661.	9.6	3224933.
1992	19.50	320813.	8.8	2814791.
1991	20.50	218613.	8.0	1754405.
1990	21.50	361280.	7.3	2638932.
1989	22.50	252167.	6.6	1666663.
1988	23.50	221167.	5.9	1313818.
1987	24.50	150630.	5.3	799544.
1986	25.50	156826.	4.7	741085.
1985	26.50	185404.	4.2	779010.
1984	27.50	135045.	3.7	504884.
1983	28.50	95046.	3.3	316617.
1982	29.50	87901.	3.0	261112.
1981	30.50	89137.	2.6	235971.
1980	31.50	74722.	2.4	175601.
1979	32.50	71564.	2.1	148244.
1978	33.50	44285.	1.8	80010.
1977	34.50	29073.	1.5	45051.
1976	35.50	28350.	1.3	36916.
1975	36.50	35763.	1.1	38284.
1974	37.50	23743.	0.9	20400.
1973	38.50	45969.	0.7	30780.
1972	39.50	15930.	0.5	8168.
1971	40.50	15722.	0.0	572.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400. House Regulator Installs

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 27.0 YRS CURVE: IOWA R4

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	9950.	0.0	0.
1969	42.50	7931.	0.0	0.
1968	43.50	2623.	0.0	0.
1967	44.50	4632.	0.0	0.
1966	45.50	6821.	0.0	0.
1965	46.50	4414.	0.0	0.
1964	47.50	4986.	0.0	0.
1963	48.50	5160.	0.0	0.
1962	49.50	33084.	0.0	0.
1961	50.50	6419.	0.0	0.
1960	51.50	10219.	0.0	0.
1959	52.50	4575.	0.0	0.
1958	53.50	7984.	0.0	0.
1957	54.50	5945.	0.0	0.
1956	55.50	3430.	0.0	0.
1955	56.50	3598.	0.0	0.
1954	57.50	691.	0.0	0.
TOTAL:		16396045.	16.6	272875239.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400. House Regulator Installs

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 27.0 YEARS CURVE: IOWA R4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0185	99.99815	0.00185	49.99954	0.037037	1.85183	1.84997	0.018500
1.50	0.0556	99.99344	0.00470	99.99580	0.037037	3.70353	5.54880	0.055492
2.50	0.0926	99.98522	0.00822	99.98933	0.037037	3.70329	9.24387	0.092452
3.50	0.1296	99.97119	0.01403	99.97820	0.037037	3.70288	12.93271	0.129364
4.50	0.1667	99.95033	0.02085	99.96076	0.037037	3.70223	16.61409	0.166223
5.50	0.2037	99.91656	0.03378	99.93344	0.037037	3.70122	20.28154	0.202985
6.50	0.2407	99.86574	0.05082	99.89115	0.037037	3.69965	23.93038	0.239625
7.50	0.2778	99.79033	0.07540	99.82804	0.037037	3.69732	27.55229	0.276102
8.50	0.3148	99.68015	0.11019	99.73524	0.037037	3.69388	31.13598	0.312359
9.50	0.3519	99.52355	0.15659	99.60185	0.037037	3.68894	34.66833	0.348343
10.50	0.3889	99.30344	0.22011	99.41350	0.037037	3.68196	38.13018	0.383976
11.50	0.4259	98.99970	0.30374	99.15157	0.037037	3.67226	41.49871	0.419180
12.50	0.4630	98.58848	0.41122	98.79409	0.037037	3.65902	44.74651	0.453872
13.50	0.5000	98.04100	0.54748	98.31474	0.037037	3.64127	47.84029	0.487962
14.50	0.5370	97.32059	0.72041	97.68080	0.037037	3.61779	50.73768	0.521346
15.50	0.5741	96.39130	0.92929	96.85595	0.037037	3.58724	53.39562	0.553947
16.50	0.6111	95.21145	1.17985	95.80137	0.037037	3.54818	55.76395	0.585685
17.50	0.6481	93.73274	1.47871	94.47209	0.037037	3.49895	57.78420	0.616478
18.50	0.6852	91.90796	1.82478	92.82035	0.037037	3.43777	59.39720	0.646268
19.50	0.7222	89.69667	2.21130	90.80232	0.037037	3.36303	60.54893	0.675041
20.50	0.7593	87.05337	2.64329	88.37502	0.037037	3.27313	61.17877	0.702773
21.50	0.7963	83.93870	3.11467	85.49604	0.037037	3.16651	61.23061	0.729468
22.50	0.8333	80.33800	3.60070	82.13835	0.037037	3.04215	60.67205	0.755210
23.50	0.8704	76.20874	4.12926	78.27337	0.037037	2.89900	59.44179	0.779987
24.50	0.9074	71.38518	4.82355	73.79696	0.037037	2.73321	57.35145	0.803408
25.50	0.9444	65.68145	5.70374	68.53332	0.037037	2.53826	54.18597	0.824981
26.50	0.9815	59.02959	6.65185	62.35552	0.037037	2.30945	49.84356	0.844383
27.50	1.0185	51.55178	7.47781	55.29068	0.037037	2.04779	44.41354	0.861533
28.50	1.0556	43.57833	7.97344	47.56506	0.037037	1.76166	38.20176	0.876623
29.50	1.0926	35.55056	8.02778	39.56445	0.037037	1.46534	31.63933	0.889981
30.50	1.1296	27.90608	7.64448	31.72832	0.037037	1.17512	25.16996	0.901953
31.50	1.1667	21.02500	6.88108	24.46554	0.037037	0.90613	19.19501	0.912961
32.50	1.2037	15.12641	5.89859	18.07570	0.037037	0.66947	13.96589	0.923279
33.50	1.2407	10.30511	4.82130	12.71576	0.037037	0.47095	9.61554	0.933085
34.50	1.2778	6.57000	3.73511	8.43755	0.037037	0.31250	6.19293	0.942608
35.50	1.3148	3.82641	2.74359	5.19820	0.037037	0.19253	3.64187	0.951772
36.50	1.3519	1.95444	1.87196	2.89043	0.037037	0.10705	1.87696	0.960353
37.50	1.3889	0.82033	1.13411	1.38739	0.037037	0.05138	0.79423	0.968179
38.50	1.4259	0.25193	0.56841	0.53613	0.037037	0.01986	0.24568	0.975201

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400. House Regulator Installs

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 27.0 YEARS CURVE: IOWA R4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.4630	0.04219	0.20974	0.14706	0.037037	0.00545	0.04138	0.981011
40.50	1.5000	0.00100	0.04119	0.02159	0.037037	0.00080	0.00100	0.998652
41.50	1.5370	0.00000	0.00100	0.00050	0.037037	0.00002	0.00000	1.000000
		2700.01258	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
2011	717487.	0.	0.	0.	0.	0.	0.	0.	0
2010	678514.	0.	0.	0.	0.	0.	0.	0.	0
2009	690344.	0.	1097.	382.	0.	0.	0.	0.	0
2008	752691.	0.	2984.	5516.	0.	0.	0.	0.	0
2007	892599.	0.	11279.	6805.	5561.	0.	0.	0.	0
2006	1625403.	0.	10445.	26703.	15470.	45610.	0.	0.	0
2005	945323.	0.	17766.	12834.	9907.	25210.	0.	0.	0
2004	920215.	0.	3438.	7395.	7633.	26000.	0.	7246.	0
2003	1238121.	0.	12207.	16685.	19007.	31013.	0.	40216.	33923
2002	847856.	0.	5702.	19569.	11353.	36334.	0.	37034.	33135
2001	0.	0.	0.	0.	0.	0.	0.	0.	0
2000	1257381.	11637.	22589.	24637.	31514.	82301.	0.	64648.	51345
1999	524548.	0.	10586.	18175.	5074.	7461.	0.	4047.	4798
1998	405028.	0.	13846.	3721.	8359.	8047.	0.	6007.	4040
1997	513130.	0.	3520.	4492.	5119.	18506.	0.	10324.	12075
1996	482214.	0.	1914.	1689.	1803.	13555.	0.	27952.	3485
1995	374273.	0.	1767.	1002.	3035.	18037.	0.	3292.	5979
1994	411645.	0.	1655.	1893.	4155.	21033.	0.	970.	2406
1993	337661.	0.	1941.	718.	7443.	2413.	0.	503.	940
1992	320813.	0.	1723.	4997.	9719.	3974.	0.	1592.	1485
1991	218613.	0.	123.	1074.	5883.	3036.	0.	566.	1265
1990	361280.	1706.	454.	1509.	5976.	4786.	0.	967.	1462
1989	252167.	0.	2827.	1265.	4094.	966.	0.	343.	246
1988	221167.	0.	23751.	113.	3619.	447.	0.	264.	116
1987	150630.	0.	62.	201.	6910.	131.	0.	53.	484
1986	156826.	0.	743.	888.	3679.	409.	0.	211.	472
1985	185404.	0.	1815.	784.	7989.	3716.	0.	171.	495
1984	135045.	0.	235.	426.	7540.	224.	0.	437.	187
1983	95046.	0.	1731.	348.	2869.	325.	0.	171.	174
1982	87901.	755.	14.	572.	2151.	242.	0.	114.	108
1981	89137.	463.	382.	669.	3214.	192.	0.	104.	347
1980	74722.	1341.	0.	213.	2198.	1218.	0.	78.	152
1979	71564.	5448.	94.	2425.	4884.	859.	0.	511.	400
1978	44285.	4492.	733.	2320.	11408.	0.	0.	61.	30
1977	29073.	0.	0.	625.	1512.	54.	0.	0.	358
1976	28350.	0.	40.	113.	246.	18.	0.	23.	88
1975	35763.	11434.	577.	890.	842.	201.	0.	3678.	2204
1974	23743.	0.	0.	152.	524.	0.	0.	22.	109
1973	45969.	0.	1450.	485.	666.	0.	0.	65.	159
1972	15930.	0.	0.	52.	525.	0.	0.	69.	102

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	15722.	0.	151.	147.	434.	1097.	0.	95.	99
1970	9950.	0.	0.	105.	449.	841.	0.	108.	115
1969	7931.	1528.	0.	33.	371.	768.	0.	19.	16
1968	2623.	1085.	0.	65.	253.	74.	0.	18.	9
1967	4632.	3022.	0.	38.	285.	903.	0.	0.	17
1966	6821.	0.	203.	11.	66.	1029.	0.	6.	6
1965	4414.	3161.	390.	113.	496.	808.	0.	9.	15
1964	4986.	1834.	0.	110.	165.	833.	0.	21.	29
1963	5160.	1114.	70.	52.	70.	211.	0.	4.	4
1962	33084.	193.	0.	351.	119.	664.	0.	25.	20
1961	6419.	390.	0.	67.	181.	766.	0.	18.	22
1960	10219.	2009.	41.	195.	395.	956.	0.	43.	69
1959	4575.	24233.	947.	696.	1815.	3201.	0.	86.	275
1958	7984.	0.	148.	160.	370.	786.	0.	19.	10
1957	5945.	0.	123.	26.	213.	64.	0.	18.	55
1956	3430.	0.	88.	12.	85.	202.	0.	12.	22
1955	3598.	0.	25.	39.	123.	12.	0.	10.	21
1954	691.	0.	325.	243.	3123.	81.	0.	21.	21
TOTAL	16396045.	75845.	162001.	174800.	230894.	369614.	0.	212271.	163394

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	717487.	0.	0.	0.	0.	0.	0.	0.	0
2010	678514.	0.	0.	0.	0.	0.	0.	0.	0
2009	690344.	0.	0.	0.	0.	0.	0.	0.	0
2008	752691.	0.	0.	0.	0.	0.	0.	0.	0
2007	892599.	0.	0.	0.	0.	0.	0.	0.	0
2006	1625403.	0.	0.	0.	0.	0.	0.	0.	0
2005	945323.	0.	0.	0.	0.	0.	0.	0.	0
2004	920215.	0.	0.	0.	0.	0.	0.	0.	0
2003	1238121.	0.	0.	0.	0.	0.	0.	0.	0
2002	847856.	23783.	0.	0.	0.	0.	0.	0.	0
2001	0.	0.	0.	0.	0.	0.	0.	0.	0
2000	1257381.	46081.	53900.	22787.	0.	0.	0.	0.	0
1999	524548.	11100.	15412.	6342.	3507.	0.	0.	0.	0
1998	405028.	5744.	16154.	6825.	3255.	0.	0.	0.	0
1997	513130.	12180.	20420.	15574.	9559.	4267.	136.	75.	0
1996	482214.	2931.	22452.	20030.	22923.	7356.	5096.	0.	0
1995	374273.	8310.	19755.	13741.	15928.	6355.	6021.	13957.	4071
1994	411645.	2575.	2639.	4709.	2125.	3242.	3941.	6197.	7660
1993	337661.	1057.	5779.	2293.	1811.	745.	750.	4061.	6905
1992	320813.	969.	3809.	2633.	1858.	1368.	1216.	4623.	6646
1991	218613.	801.	4734.	2138.	1412.	906.	637.	5358.	6087
1990	361280.	468.	1754.	1312.	1959.	501.	1592.	6151.	7324
1989	252167.	206.	1606.	1115.	1071.	116.	292.	3524.	8561
1988	221167.	247.	1266.	446.	1006.	0.	1213.	4598.	6502
1987	150630.	350.	441.	903.	680.	312.	1287.	8342.	10069
1986	156826.	203.	1288.	955.	692.	336.	506.	5722.	10299
1985	185404.	171.	645.	1193.	968.	134.	517.	5323.	6371
1984	135045.	430.	1085.	1311.	930.	410.	921.	4631.	5891
1983	95046.	92.	653.	366.	928.	256.	4775.	2825.	2361
1982	87901.	114.	361.	320.	687.	39.	203.	983.	1356
1981	89137.	110.	547.	276.	308.	122.	295.	1387.	1755
1980	74722.	117.	332.	140.	291.	74.	250.	1345.	1282
1979	71564.	0.	1017.	235.	1028.	105.	432.	1662.	2790
1978	44285.	61.	203.	1129.	654.	246.	386.	1002.	1749
1977	29073.	156.	215.	208.	137.	103.	168.	415.	1219
1976	28350.	0.	193.	14.	107.	42.	56.	134.	547
1975	35763.	4453.	8131.	2187.	504.	38.	53.	360.	279
1974	23743.	100.	231.	111.	197.	69.	78.	262.	508
1973	45969.	202.	577.	983.	1278.	596.	864.	748.	1004
1972	15930.	112.	382.	279.	467.	79.	120.	440.	875

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
1971	15722.	69.	299.	226.	111.	147.	102.	154.	606
1970	9950.	138.	142.	288.	120.	45.	75.	168.	268
1969	7931.	101.	107.	245.	131.	65.	101.	289.	441
1968	2623.	97.	145.	83.	254.	28.	74.	150.	260
1967	4632.	68.	38.	115.	170.	51.	63.	114.	265
1966	6821.	17.	225.	64.	101.	29.	37.	442.	780
1965	4414.	20.	22.	31.	41.	13.	2.	39.	83
1964	4986.	43.	72.	129.	86.	50.	64.	186.	166
1963	5160.	5.	15.	13.	18.	4.	4.	18.	39
1962	33084.	19.	178.	665.	47.	16.	25.	69.	74
1961	6419.	28.	40.	54.	116.	58.	41.	116.	81
1960	10219.	67.	67.	121.	224.	138.	101.	172.	338
1959	4575.	210.	449.	322.	480.	102.	221.	571.	518
1958	7984.	46.	65.	75.	164.	36.	29.	85.	95
1957	5945.	48.	40.	44.	123.	50.	39.	85.	77
1956	3430.	20.	25.	29.	43.	32.	40.	26.	60
1955	3598.	16.	18.	37.	66.	25.	18.	16.	35
1954	691.	6.	21.	54.	165.	9.	24.	36.	48
TOTAL	16396045.	124141.	187949.	113150.	78730.	28715.	32865.	86861.	106345

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	717487.	0.	0.	0.	0.	0.	0.	0.	0
2010	678514.	0.	0.	0.	0.	0.	0.	0.	0
2009	690344.	0.	0.	0.	0.	0.	0.	0.	0
2008	752691.	0.	0.	0.	0.	0.	0.	0.	0
2007	892599.	0.	0.	0.	0.	0.	0.	0.	0
2006	1625403.	0.	0.	0.	0.	0.	0.	0.	0
2005	945323.	0.	0.	0.	0.	0.	0.	0.	0
2004	920215.	0.	0.	0.	0.	0.	0.	0.	0
2003	1238121.	0.	0.	0.	0.	0.	0.	0.	0
2002	847856.	0.	0.	0.	0.	0.	0.	0.	0
2001	0.	0.	0.	0.	0.	0.	0.	0.	0
2000	1257381.	0.	0.	0.	0.	0.	0.	0.	0
1999	524548.	0.	0.	0.	0.	0.	0.	0.	0
1998	405028.	0.	0.	0.	0.	0.	0.	0.	0
1997	513130.	0.	0.	0.	0.	0.	0.	0.	0
1996	482214.	0.	0.	0.	0.	0.	0.	0.	0
1995	374273.	3087.	0.	0.	0.	0.	0.	0.	0
1994	411645.	1535.	0.	0.	0.	0.	0.	0.	0
1993	337661.	4481.	0.	0.	0.	0.	0.	0.	0
1992	320813.	9167.	0.	0.	0.	0.	0.	0.	0
1991	218613.	11193.	0.	0.	0.	0.	0.	0.	0
1990	361280.	4792.	0.	0.	0.	0.	0.	0.	0
1989	252167.	2811.	0.	0.	0.	0.	0.	0.	0
1988	221167.	3892.	0.	0.	0.	0.	0.	0.	0
1987	150630.	7132.	0.	0.	0.	0.	0.	0.	0
1986	156826.	5484.	0.	0.	0.	0.	0.	0.	0
1985	185404.	4043.	0.	0.	0.	0.	0.	0.	0
1984	135045.	4952.	0.	0.	0.	0.	0.	0.	0
1983	95046.	1956.	0.	0.	0.	0.	0.	0.	0
1982	87901.	656.	0.	0.	0.	0.	0.	0.	0
1981	89137.	1237.	0.	0.	0.	0.	0.	0.	0
1980	74722.	553.	0.	0.	0.	0.	0.	0.	0
1979	71564.	1550.	0.	30.	0.	0.	209.	20.	0
1978	44285.	937.	0.	0.	0.	0.	0.	0.	0
1977	29073.	700.	0.	0.	0.	0.	0.	0.	0
1976	28350.	359.	0.	0.	0.	0.	0.	0.	0
1975	35763.	334.	0.	0.	0.	0.	0.	0.	987
1974	23743.	341.	0.	0.	0.	0.	0.	0.	0
1973	45969.	1058.	0.	0.	0.	0.	0.	0.	0
1972	15930.	573.	3586.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	15722.	333.	0.	2485.	1157.	0.	1808.	0.	0
1970	9950.	376.	0.	0.	0.	0.	0.	0.	0
1969	7931.	302.	0.	0.	0.	0.	0.	0.	0
1968	2623.	235.	0.	0.	0.	0.	0.	0.	0
1967	4632.	212.	0.	0.	0.	0.	0.	0.	0
1966	6821.	473.	0.	0.	0.	0.	0.	0.	0
1965	4414.	66.	0.	0.	0.	0.	0.	0.	0
1964	4986.	260.	0.	0.	0.	0.	0.	0.	0
1963	5160.	34.	0.	0.	0.	0.	0.	0.	0
1962	33084.	78.	0.	0.	0.	0.	0.	0.	0
1961	6419.	176.	0.	0.	0.	0.	0.	0.	0
1960	10219.	185.	0.	1782.	0.	0.	0.	0.	0
1959	4575.	424.	0.	24316.	1036.	0.	2930.	1778.	4253
1958	7984.	149.	0.	0.	1367.	0.	0.	0.	0
1957	5945.	68.	0.	0.	724.	0.	0.	0.	0
1956	3430.	54.	0.	0.	288.	0.	0.	0.	0
1955	3598.	68.	0.	0.	834.	0.	0.	0.	0
1954	691.	96.	0.	0.	0.	0.	3419.	212.	1301
TOTAL	16396045.	76412.	3586.	28613.	5406.	0.	8366.	2010.	6541

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984
2011	717487.	0.	0.	0.	0.
2010	678514.	0.	0.	0.	0.
2009	690344.	0.	0.	0.	0.
2008	752691.	0.	0.	0.	0.
2007	892599.	0.	0.	0.	0.
2006	1625403.	0.	0.	0.	0.
2005	945323.	0.	0.	0.	0.
2004	920215.	0.	0.	0.	0.
2003	1238121.	0.	0.	0.	0.
2002	847856.	0.	0.	0.	0.
2001	0.	0.	0.	0.	0.
2000	1257381.	0.	0.	0.	0.
1999	524548.	0.	0.	0.	0.
1998	405028.	0.	0.	0.	0.
1997	513130.	0.	0.	0.	0.
1996	482214.	0.	0.	0.	0.
1995	374273.	0.	0.	0.	0.
1994	411645.	0.	0.	0.	0.
1993	337661.	0.	0.	0.	0.
1992	320813.	0.	0.	0.	0.
1991	218613.	0.	0.	0.	0.
1990	361280.	0.	0.	0.	0.
1989	252167.	0.	0.	0.	0.
1988	221167.	0.	0.	0.	0.
1987	150630.	0.	0.	0.	0.
1986	156826.	0.	0.	0.	0.
1985	185404.	0.	0.	0.	0.
1984	135045.	0.	0.	0.	0.
1983	95046.	0.	0.	0.	0.
1982	87901.	0.	0.	0.	0.
1981	89137.	0.	0.	0.	0.
1980	74722.	0.	0.	0.	0.
1979	71564.	0.	30.	0.	0.
1978	44285.	0.	31.	0.	0.
1977	29073.	0.	0.	0.	0.
1976	28350.	0.	0.	0.	0.
1975	35763.	0.	0.	0.	0.
1974	23743.	0.	0.	0.	0.
1973	45969.	0.	0.	0.	0.
1972	15930.	0.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984
1971	15722.	0.	0.	0.	0.
1970	9950.	0.	0.	0.	0.
1969	7931.	0.	0.	0.	0.
1968	2623.	0.	0.	0.	0.
1967	4632.	0.	0.	0.	0.
1966	6821.	0.	883.	0.	0.
1965	4414.	0.	0.	0.	0.
1964	4986.	0.	955.	0.	0.
1963	5160.	0.	0.	0.	0.
1962	33084.	0.	0.	0.	0.
1961	6419.	0.	0.	0.	0.
1960	10219.	0.	0.	323.	1451.
1959	4575.	12953.	1521.	0.	0.
1958	7984.	0.	0.	0.	0.
1957	5945.	0.	0.	1061.	0.
1956	3430.	0.	0.	0.	0.
1955	3598.	0.	0.	0.	0.
1954	691.	1825.	0.	0.	0.
TOTAL	16396045.	14778.	3420.	1384.	1451.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1984 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	17593321.	3544.	0.00020144	0.99979856	1.00000000
0.5	16987166.	154772.	0.00911111	0.99088889	0.99979856
1.5	16250456.	222778.	0.01370903	0.98629097	0.99068928
2.5	15437879.	224446.	0.01453866	0.98546134	0.97710789
3.5	14545048.	211217.	0.01452157	0.98547843	0.96290206
4.5	13536525.	231564.	0.01710661	0.98289339	0.94891920
5.5	11749285.	107515.	0.00915077	0.99084923	0.93268642
6.5	10731390.	182004.	0.01695997	0.98304003	0.92415162
7.5	9659501.	93273.	0.00965609	0.99034391	0.90847804
8.5	8401022.	105032.	0.01250229	0.98749771	0.89970569
9.5	7474582.	106323.	0.01422461	0.98577539	0.88845731
10.5	7424362.	73155.	0.00985337	0.99014663	0.87581936
11.5	6117417.	58830.	0.00961680	0.99038320	0.86718958
12.5	5559281.	44822.	0.00806255	0.99193745	0.85884999
13.5	5122619.	21082.	0.00411547	0.99588453	0.85192547
14.5	4600855.	27377.	0.00595042	0.99404958	0.84841939
15.5	4096717.	24026.	0.00586470	0.99413530	0.84337094
16.5	3708411.	26848.	0.00723976	0.99276024	0.83842483
17.5	3281111.	17056.	0.00519824	0.99480176	0.83235483
18.5	2936117.	13484.	0.00459246	0.99540754	0.82802806
19.5	2611809.	9517.	0.00364383	0.99635617	0.82422537
20.5	2390514.	16730.	0.00699849	0.99300151	0.82122203
21.5	2048131.	42068.	0.02053970	0.97946030	0.81547471
22.5	1762469.	13958.	0.00791957	0.99208043	0.79872510
23.5	1546240.	13689.	0.00885309	0.99114691	0.79239954
24.5	1469833.	9302.	0.00632861	0.99367139	0.78538436
25.5	1315293.	7640.	0.00580859	0.99419141	0.78041397
26.5	1131052.	19220.	0.01699303	0.98300697	0.77588086
27.5	981255.	24959.	0.02543579	0.97456421	0.76269629
28.5	866211.	14815.	0.01710322	0.98289678	0.74329651
29.5	775216.	21944.	0.02830695	0.97169305	0.73058374
30.5	664135.	10102.	0.01521076	0.98478924	0.70990315
31.5	579311.	8457.	0.01459838	0.98540162	0.69910498
32.5	499290.	11090.	0.02221154	0.97778846	0.68889918
33.5	443915.	29455.	0.06635279	0.93364721	0.67359767
34.5	385387.	3084.	0.00800235	0.99199765	0.62890258
35.5	353953.	18593.	0.05252957	0.94747043	0.62386989
36.5	299597.	4728.	0.01578120	0.98421880	0.59109827
37.5	271126.	2415.	0.00890730	0.99109270	0.58177003
38.5	222742.	2136.	0.00958957	0.99041043	0.57658803

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38400 House Regulator Installs

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1984 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	204676.	2032.	0.00992789	0.99007211	0.57105880
40.5	186922.	2296.	0.01228320	0.98771680	0.56538939
41.5	174676.	3199.	0.01831391	0.98168609	0.55844460
42.5	163546.	3272.	0.02000660	0.97999340	0.54821730
43.5	157651.	4212.	0.02671724	0.97328276	0.53724933
44.5	148807.	1742.	0.01170644	0.98829356	0.52289551
45.5	140244.	4469.	0.03186589	0.96813411	0.51677427
46.5	131361.	3558.	0.02708566	0.97291434	0.50030679
47.5	122817.	4854.	0.03952222	0.96047778	0.48675565
48.5	112803.	3028.	0.02684326	0.97315674	0.46751799
49.5	76691.	1592.	0.02075863	0.97924137	0.45496828
50.5	68680.	3552.	0.05171811	0.94828189	0.44552377
51.5	54909.	24504.	0.44626564	0.55373436	0.42248212
52.5	25830.	339.	0.01312427	0.98687573	0.23394287
53.5	17507.	3250.	0.18564003	0.81435997	0.23087254
54.5	8312.	268.	0.03224254	0.96775746	0.18801335
55.5	4614.	325.	0.07043780	0.92956220	0.18195132
56.5	691.	0.	0.00000000	1.00000000	0.16913507
TOTAL		2299542.			39.08281372

PGS - 2011 CASE

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

FITTED RANGE AGE 0.5 TO 56.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	17593321.	3544.	98055.	0.00020144	0.00557340	1.00000000	1.00000000	0.00	0.00000000
0.5	16987166.	154772.	190229.	0.00911111	0.01119838	0.99979856	0.99442660	0.82	0.00259499
1.5	16250456.	222778.	183656.	0.01370903	0.01130157	0.99068928	0.98329063	2.45	0.00774510
2.5	15437879.	224446.	176065.	0.01453866	0.01140475	0.97710789	0.97217791	4.09	0.01284969
3.5	14545048.	211217.	167383.	0.01452157	0.01150793	0.96290206	0.96109046	5.72	0.01790929
4.5	13536525.	231564.	157174.	0.01710661	0.01161111	0.94891920	0.95003030	7.36	0.02292440
5.5	11749285.	107515.	137635.	0.00915077	0.01171429	0.93268642	0.93899939	8.99	0.02789559
6.5	10731390.	182004.	126818.	0.01695997	0.01181748	0.92415162	0.92799968	10.63	0.03282333
7.5	9659501.	93273.	115148.	0.00965609	0.01192066	0.90847804	0.91703306	12.26	0.03770820
8.5	8401022.	105032.	101013.	0.01250229	0.01202384	0.89970569	0.90610142	13.90	0.04255065
9.5	7474582.	106323.	90644.	0.01422461	0.01212702	0.88845731	0.89520661	15.54	0.04735116
10.5	7424362.	73155.	90801.	0.00985337	0.01223020	0.87581936	0.88435041	17.17	0.05211024
11.5	6117417.	58830.	75448.	0.00961680	0.01233339	0.86718958	0.87353463	18.81	0.05682837
12.5	5559281.	44822.	69138.	0.00806255	0.01243657	0.85884999	0.86276099	20.44	0.06150605
13.5	5122619.	21082.	64236.	0.00411547	0.01253975	0.85192547	0.85203120	22.08	0.06614375
14.5	4600855.	27377.	58168.	0.00595042	0.01264293	0.84841939	0.84134694	23.71	0.07074189
15.5	4096717.	24026.	52217.	0.00586470	0.01274611	0.84337094	0.83070985	25.35	0.07530093
16.5	3708411.	26848.	47650.	0.00723976	0.01284930	0.83842483	0.82012153	26.98	0.07982136
17.5	3281111.	17056.	42499.	0.00519824	0.01295248	0.83235483	0.80958354	28.62	0.08430357
18.5	2936117.	13484.	38333.	0.00459246	0.01305566	0.82802806	0.79909743	30.25	0.08874798
19.5	2611809.	9517.	34368.	0.00364383	0.01315884	0.82422537	0.78866468	31.89	0.09315513
20.5	2390514.	16730.	31703.	0.00699849	0.01326202	0.82122203	0.77828677	33.52	0.09752536
21.5	2048131.	42068.	27374.	0.02053970	0.01336521	0.81547471	0.76796511	35.16	0.10185906
22.5	1762469.	13958.	23738.	0.00791957	0.01346839	0.79872510	0.75770110	36.79	0.10615667
23.5	1546240.	13689.	20985.	0.00885309	0.01357157	0.79239954	0.74749608	38.43	0.11041866
24.5	1469833.	9302.	20100.	0.00632861	0.01367475	0.78538436	0.73735139	40.07	0.11464539
25.5	1315293.	7640.	18122.	0.00580859	0.01377794	0.78041397	0.72726829	41.70	0.11883720
26.5	1131052.	19220.	15700.	0.01699303	0.01388112	0.77588086	0.71724803	43.34	0.12299454
27.5	981255.	24959.	13722.	0.02543579	0.01398430	0.76269629	0.70729183	44.97	0.12711777
28.5	866211.	14815.	12203.	0.01710322	0.01408748	0.74329651	0.69740085	46.61	0.13120726
29.5	775216.	21944.	11001.	0.02830695	0.01419066	0.73058374	0.68757623	48.24	0.13526340
30.5	664135.	10102.	9493.	0.01521076	0.01429385	0.70990315	0.67781907	49.88	0.13928660
31.5	579311.	8457.	8340.	0.01459838	0.01439703	0.69910498	0.66813043	51.51	0.14327717

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

FITTED RANGE AGE 0.5 TO 56.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	499290.	11090.	7240.	0.02221154	0.01450021	0.68889918	0.65851133	53.15	0.14723547
33.5	443915.	29455.	6483.	0.06635279	0.01460339	0.67359767	0.64896278	54.78	0.15116192
34.5	385387.	3084.	5668.	0.00800235	0.01470657	0.62890258	0.63948572	56.42	0.15505683
35.5	353953.	18593.	5242.	0.05252957	0.01480976	0.62386989	0.63008108	58.05	0.15892048
36.5	299597.	4728.	4468.	0.01578120	0.01491294	0.59109827	0.62074973	59.69	0.16275329
37.5	271126.	2415.	4071.	0.00890730	0.01501612	0.58177003	0.61149253	61.32	0.16655559
38.5	222742.	2136.	3368.	0.00958957	0.01511930	0.57658803	0.60231029	62.96	0.17032767
39.5	204676.	2032.	3116.	0.00992789	0.01522248	0.57105880	0.59320378	64.60	0.17406988
40.5	186922.	2296.	2865.	0.01228320	0.01532567	0.56538939	0.58417374	66.23	0.17778257
41.5	174676.	3199.	2695.	0.01831391	0.01542885	0.55844460	0.57522089	67.87	0.18146599
42.5	163546.	3272.	2540.	0.02000660	0.01553203	0.54821730	0.56634590	69.50	0.18512048
43.5	157651.	4212.	2465.	0.02671724	0.01563521	0.53724933	0.55754939	71.14	0.18874637
44.5	148807.	1742.	2342.	0.01170644	0.01573839	0.52289551	0.54883199	72.77	0.19234396
45.5	140244.	4469.	2222.	0.03186589	0.01584158	0.51677427	0.54019426	74.41	0.19591357
46.5	131361.	3558.	2095.	0.02708566	0.01594476	0.50030679	0.53163673	76.04	0.19945545
47.5	122817.	4854.	1971.	0.03952222	0.01604794	0.48675565	0.52315991	77.68	0.20296997
48.5	112803.	3028.	1822.	0.02684326	0.01615112	0.46751799	0.51476427	79.31	0.20645732
49.5	76691.	1592.	1247.	0.02075863	0.01625430	0.45496828	0.50645025	80.95	0.20991789
50.5	68680.	3552.	1123.	0.05171811	0.01635749	0.44552377	0.49821826	82.58	0.21335191
51.5	54909.	24504.	904.	0.44626564	0.01646067	0.42248212	0.49006866	84.22	0.21675965
52.5	25830.	339.	428.	0.01312427	0.01656385	0.23394287	0.48200180	85.85	0.22014138
53.5	17507.	3250.	292.	0.18564003	0.01666703	0.23087254	0.47401800	87.49	0.22349742
54.5	8312.	268.	139.	0.03224254	0.01677021	0.18801335	0.46611752	89.13	0.22682798
55.5	4614.	325.	78.	0.07043780	0.01687340	0.18195132	0.45830063	90.76	0.23013337
56.5	691.	0.	12.	0.00000000	0.01697658	0.16913507	0.45056754	92.40	0.23341385
TOTAL (EXCEPT AGE 0)	2295998.	2295998.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

FITTED RANGE AGE 0.5 TO 56.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
57.5					0.01707976		0.44291845	94.03	0.23666961
58.5					0.01718294		0.43535351	95.67	0.23990099
59.5					0.01728612		0.42787285	97.30	0.24310821
60.5					0.01738931		0.42047659	98.94	0.24629153
61.5					0.01749249		0.41316480	100.57	0.24945116
62.5					0.01759567		0.40593751	102.21	0.25258732
63.5					0.01769885		0.39879477	103.84	0.25570031
64.5					0.01780203		0.39173656	105.48	0.25879033
65.5					0.01790522		0.38476286	107.11	0.26185768
66.5					0.01800840		0.37787359	108.75	0.26490256
67.5					0.01811158		0.37106870	110.38	0.26792518
68.5					0.01821476		0.36434805	112.02	0.27092573
69.5					0.01831794		0.35771154	113.66	0.27390444
70.5					0.01842113		0.35115900	115.29	0.27686159
71.5					0.01852431		0.34469026	116.93	0.27979735
72.5					0.01862749		0.33830511	118.56	0.28271195
73.5					0.01873067		0.33200333	120.20	0.28560561
74.5					0.01883385		0.32578469	121.83	0.28847852
75.5					0.01893704		0.31964891	123.47	0.29133088
76.5					0.01904022		0.31359570	125.10	0.29416289
77.5					0.01914340		0.30762477	126.74	0.29697478
78.5					0.01924658		0.30173579	128.37	0.29976673
79.5					0.01934976		0.29592841	130.01	0.30253895
80.5					0.01945295		0.29020226	131.64	0.30529159
81.5					0.01955613		0.28455697	133.28	0.30802490
82.5					0.01965931		0.27899214	134.91	0.31073907
83.5					0.01976249		0.27350735	136.55	0.31343421
84.5					0.01986567		0.26810216	138.19	0.31611057
85.5					0.01996886		0.26277613	139.82	0.31876831
86.5					0.02007204		0.25752879	141.46	0.32140766
87.5					0.02017522		0.25235966	143.09	0.32402877
88.5					0.02027840		0.24726825	144.73	0.32663176
89.5					0.02038158		0.24225405	146.36	0.32921689

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

FITTED RANGE AGE 0.5 TO 56.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
90.5					0.02048477		0.23731652	148.00	0.33178429
91.5					0.02058795		0.23245515	149.63	0.33433408
92.5					0.02069113		0.22766938	151.27	0.33686651
93.5					0.02079431		0.22295864	152.90	0.33938174
94.5					0.02089749		0.21832237	154.54	0.34187988
95.5					0.02100068		0.21375998	156.17	0.34436115
96.5					0.02110386		0.20927087	157.81	0.34682569
97.5					0.02120704		0.20485445	159.44	0.34927359
98.5					0.02131022		0.20051009	161.08	0.35170506
99.5					0.02141340		0.19623718	162.72	0.35412029
100.5					0.02151659		0.19203507	164.35	0.35651941
101.5					0.02161977		0.18790313	165.99	0.35890259
102.5					0.02172295		0.18384071	167.62	0.36126992
103.5					0.02182613		0.17984715	169.26	0.36362161
104.5					0.02192931		0.17592178	170.89	0.36595779
105.5					0.02203250		0.17206394	172.53	0.36827860
106.5					0.02213568		0.16827294	174.16	0.37058417
107.5					0.02223886		0.16454810	175.80	0.37287465
108.5					0.02234204		0.16088874	177.43	0.37515017
109.5					0.02244523		0.15729416	179.07	0.37741090
110.5					0.02254841		0.15376365	180.70	0.37965697
111.5					0.02265159		0.15029653	182.34	0.38188851
112.5					0.02275477		0.14689207	183.97	0.38410565
113.5					0.02285795		0.14354958	185.61	0.38630851
114.5					0.02296114		0.14026833	187.25	0.38849722
115.5					0.02306432		0.13704761	188.88	0.39067193
116.5					0.02316750		0.13388670	190.52	0.39283279
117.5					0.02327068		0.13078488	192.15	0.39497990
118.5					0.02337386		0.12774143	193.79	0.39711338
119.5					0.02347705		0.12475562	195.42	0.39923334
120.5					0.02358023		0.12182672	197.06	0.40133990
121.5					0.02368341		0.11895402	198.69	0.40343323
122.5					0.02378659		0.11613678	200.33	0.40551345

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 56.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
123.5					0.02388977		0.11337429	201.96	0.40758062
124.5					0.02399296		0.11066580	203.60	0.40963491
125.5					0.02409614		0.10801060	205.23	0.41167647
126.5					0.02419932		0.10540796	206.87	0.41370532
127.5					0.02430250		0.10285716	208.50	0.41572163
128.5					0.02440568		0.10035747	210.14	0.41772551
129.5					0.02450887		0.09790818	211.78	0.41971709
130.5					0.02461205		0.09550856	213.41	0.42169647
131.5					0.02471523		0.09315790	215.05	0.42366373
132.5					0.02481841		0.09085548	216.68	0.42561903
133.5					0.02492159		0.08860059	218.32	0.42756246
134.5					0.02502478		0.08639253	219.95	0.42949410
135.5					0.02512796		0.08423057	221.59	0.43141409
136.5					0.02523114		0.08211403	223.22	0.43332253
137.5					0.02533432		0.08004220	224.86	0.43521948
138.5					0.02543750		0.07801438	226.49	0.43710508
139.5					0.02554069		0.07602989	228.13	0.43897945
140.5					0.02564387		0.07408804	229.76	0.44084265
141.5					0.02574705		0.07218813	231.40	0.44269485
142.5					0.02585023		0.07032950	233.03	0.44453609
143.5					0.02595341		0.06851147	234.67	0.44636648
144.5					0.02605660		0.06673336	236.31	0.44818615
145.5					0.02615978		0.06499452	237.94	0.44999516
146.5					0.02626296		0.06329428	239.58	0.45179365
147.5					0.02636614		0.06163198	241.21	0.45358164
148.5					0.02646932		0.06000698	242.85	0.45535929
149.5					0.02657251		0.05841864	244.48	0.45712672
150.5					0.02667569		0.05686631	246.12	0.45888396
151.5					0.02677887		0.05534936	247.75	0.46063113
152.5					0.02688205		0.05386717	249.39	0.46236832
153.5					0.02698523		0.05241911	251.02	0.46409565
154.5					0.02708842		0.05100457	252.66	0.46581316
155.5					0.02719160		0.04962293	254.29	0.46752097

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

FITTED RANGE AGE 0.5 TO 56.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
156.5					0.02729478		0.04827361	255.93	0.46921916
157.5					0.02739796		0.04695599	257.56	0.47090784
158.5					0.02750114		0.04566949	259.20	0.47258709
159.5					0.02760433		0.04441353	260.84	0.47425699
160.5					0.02770751		0.04318752	262.47	0.47591768
161.5					0.02781069		0.04199090	264.11	0.47756919
162.5					0.02791387		0.04082311	265.74	0.47921162
163.5					0.02801705		0.03968358	267.38	0.48084508
164.5					0.02812024		0.03857176	269.01	0.48246965
165.5					0.02822342		0.03748711	270.65	0.48408538
166.5					0.02832660		0.03642910	272.28	0.48569244
167.5					0.02842978		0.03539719	273.92	0.48729081
168.5					0.02853296		0.03439085	275.55	0.48888066
169.5					0.02863615		0.03340958	277.19	0.49046203
170.5					0.02873933		0.03245286	278.82	0.49203506
171.5					0.02884251		0.03152018	280.46	0.49359981
172.5					0.02894569		0.03061106	282.09	0.49515634
173.5					0.02904887		0.02972500	283.73	0.49670475
174.5					0.02915206		0.02886153	285.37	0.49824514
175.5					0.02925524		0.02802015	287.00	0.49977759
176.5					0.02935842		0.02720042	288.64	0.50130218
177.5					0.02946160		0.02640186	290.27	0.50281899
178.5					0.02956478		0.02562401	291.91	0.50432815
179.5					0.02966797		0.02486645	293.54	0.50582971
180.5					0.02977115		0.02412871	295.18	0.50732376
181.5					0.02987433		0.02341037	296.81	0.50881039
182.5					0.02997751		0.02271100	298.45	0.51028969
183.5					0.03008069		0.02203018	300.08	0.51176171
184.5					0.03018388		0.02136750	301.72	0.51322659
185.5					0.03028706		0.02072254	303.35	0.51468440
186.5					0.03039024		0.02009492	304.99	0.51613526
187.5					0.03049342		0.01948423	306.62	0.51757922
188.5					0.03059660		0.01889009	308.26	0.51901637

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
					FITTED RANGE AGE 0.5 TO 56.5				
189.5					0.03069979		0.01831212	309.90	0.52044681
190.5					0.03080297		0.01774994	311.53	0.52187063
191.5					0.03090615		0.01720319	313.17	0.52328797
192.5					0.03100933		0.01667150	314.80	0.52469888
193.5					0.03111252		0.01615453	316.44	0.52610344
194.5					0.03121570		0.01565192	318.07	0.52750176
195.5					0.03131888		0.01516334	319.71	0.52889393
196.5					0.03142206		0.01468844	321.34	0.53028007
197.5					0.03152524		0.01422690	322.98	0.53166026
198.5					0.03162843		0.01377839	324.61	0.53303460
199.5					0.03173161		0.01334260	326.25	0.53440322
200.5					0.03183479		0.01291922	327.88	0.53576618
201.5					0.03193797		0.01250794	329.52	0.53712363
202.5					0.03204115		0.01210846	331.15	0.53847567
203.5					0.03214434		0.01172049	332.79	0.53982240
204.5					0.03224752		0.01134374	334.43	0.54116390
205.5					0.03235070		0.01097794	336.06	0.54250032
206.5					0.03245388		0.01062279	337.70	0.54383174
207.5					0.03255706		0.01027804	339.33	0.54515834
208.5					0.03266025		0.00994342	340.97	0.54648019
209.5					0.03276343		0.00961866	342.60	0.54779743
210.5					0.03286661		0.00930352	344.24	0.54911017
211.5					0.03296979		0.00899775	345.87	0.55041851
212.5					0.03307297		0.00870110	347.51	0.55172262
213.5					0.03317616		0.00841332	349.14	0.55302267
214.5					0.03327934		0.00813420	350.78	0.55431874
215.5					0.03338252		0.00786350	352.41	0.55561098
216.5					0.03348570		0.00760100	354.05	0.55689955
217.5					0.03358888		0.00734647	355.68	0.55818456
218.5					0.03369207		0.00709971	357.32	0.55946619
219.5					0.03379525		0.00686051	358.96	0.56074462
220.5					0.03389843		0.00662866	360.59	0.56201997
221.5					0.03400161		0.00640396	362.23	0.56329243

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

FITTED RANGE AGE 0.5 TO 56.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
222.5					0.03410479		0.00618621	363.86	0.56456214
223.5					0.03420798		0.00597523	365.50	0.56582932
224.5					0.03431116		0.00577083	367.13	0.56709410
225.5					0.03441434		0.00557283	368.77	0.56835670
226.5					0.03451752		0.00538104	370.40	0.56961729
227.5					0.03462070		0.00519530	372.04	0.57087610
228.5					0.03472389		0.00501544	373.67	0.57213331
229.5					0.03482707		0.00484128	375.31	0.57338911
230.5					0.03493025		0.00467267	376.94	0.57464377
231.5					0.03503343		0.00450946	378.58	0.57589748
232.5					0.03513661		0.00435147	380.21	0.57715049
233.5					0.03523980		0.00419858	381.85	0.57840302
234.5					0.03534298		0.00405062	383.49	0.57965536
235.5					0.03544616		0.00390746	385.12	0.58090772
236.5					0.03554934		0.00376896	386.76	0.58216039
237.5					0.03565252		0.00363497	388.39	0.58341369
238.5					0.03575571		0.00350538	390.03	0.58466787
239.5					0.03585889		0.00338004	391.66	0.58592324
240.5					0.03596207		0.00325883	393.30	0.58718009
241.5					0.03606525		0.00314164	394.93	0.58843876
242.5					0.03616843		0.00302834	396.57	0.58969962
243.5					0.03627162		0.00291881	398.20	0.59096297
244.5					0.03637480		0.00281294	399.84	0.59222919
245.5					0.03647798		0.00271062	401.47	0.59349869
246.5					0.03658116		0.00261174	403.11	0.59477186
247.5					0.03668434		0.00251620	404.74	0.59604910
248.5					0.03678753		0.00242389	406.38	0.59733080
249.5					0.03689071		0.00233472	408.02	0.59861746
250.5					0.03699389		0.00224859	409.65	0.59990954
251.5					0.03709707		0.00216541	411.29	0.60120748
252.5					0.03720025		0.00208508	412.92	0.60251184
253.5					0.03730344		0.00200751	414.56	0.60382310
254.5					0.03740662		0.00193263	416.19	0.60514185

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 56.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
255.5					0.03750980		0.00186033	417.83	0.60646865
256.5					0.03761298		0.00179055	419.46	0.60780410
257.5					0.03771616		0.00172320	421.10	0.60914880
258.5					0.03781935		0.00165821	422.73	0.61050341
259.5					0.03792253		0.00159550	424.37	0.61186863
260.5					0.03802571		0.00153499	426.00	0.61324516
261.5					0.03812889		0.00147663	427.64	0.61463374
262.5					0.03823207		0.00142032	429.27	0.61603517
263.5					0.03833526		0.00136602	430.91	0.61745021
264.5					0.03843844		0.00131365	432.55	0.61887972
265.5					0.03854162		0.00126316	434.18	0.62032460
266.5					0.03864480		0.00121448	435.82	0.62178580
267.5					0.03874798		0.00116754	437.45	0.62326425
268.5					0.03885117		0.00112230	439.09	0.62476098
269.5					0.03895435		0.00107870	440.72	0.62627705
270.5					0.03905753		0.00103668	442.36	0.62781357
271.5					0.03916071		0.00099619	443.99	0.62937171
272.5					0.03926390		0.00095718	445.63	0.63095268
273.5					0.03936708		0.00091960	447.26	0.63255775
274.5					0.03947026		0.00088339	448.90	0.63418824
275.5					0.03957344		0.00084853	450.53	0.63584555
276.5					0.03967662		0.00081495	452.17	0.63753117
277.5					0.03977981		0.00078261	453.80	0.63924659
278.5					0.03988299		0.00075148	455.44	0.64099345
279.5					0.03998617		0.00072151	457.08	0.64277341
280.5					0.04008935		0.00069266	458.71	0.64458822
281.5					0.04019253		0.00066489	460.35	0.64643974
282.5					0.04029572		0.00063817	461.98	0.64832990
283.5					0.04039890		0.00061245	463.62	0.65026075
284.5					0.04050208		0.00058771	465.25	0.65223441
285.5					0.04060526		0.00056391	466.89	0.65425310
286.5					0.04070844		0.00054101	468.52	0.65631917
287.5					0.04081163		0.00051898	470.16	0.65843506

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

FITTED RANGE AGE 0.5 TO 56.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
288.5					0.04091481		0.00049780	471.79	0.66060335
289.5					0.04101799		0.00047744	473.43	0.66282676
290.5					0.04112117		0.00045785	475.06	0.66510810
291.5					0.04122435		0.00043903	476.70	0.66745037
292.5					0.04132754		0.00042093	478.33	0.66985668
293.5					0.04143072		0.00040353	479.97	0.67233032
294.5					0.04153390		0.00038681	481.61	0.67487470
295.5					0.04163708		0.00037075	483.24	0.67749346
296.5					0.04174026		0.00035531	484.88	0.68019040
297.5					0.04184345		0.00034048	486.51	0.68296950
298.5					0.04194663		0.00032623	488.15	0.68583493
299.5					0.04204981		0.00031255	489.78	0.68879111
300.5					0.04215299		0.00029941	491.42	0.69184264
301.5					0.04225617		0.00028678	493.05	0.69499440
302.5					0.04235936		0.00027467	494.69	0.69825148
303.5					0.04246254		0.00026303	496.32	0.70161924
304.5					0.04256572		0.00025186	497.96	0.70510328
305.5					0.04266890		0.00024114	499.59	0.70870957
306.5					0.04277208		0.00023085	501.23	0.71244433
307.5					0.04287527		0.00022098	502.86	0.71631409
308.5					0.04297845		0.00021150	504.50	0.72032572
309.5					0.04308163		0.00020241	506.14	0.72448648
310.5					0.04318481		0.00019369	507.77	0.72880396
311.5					0.04328799		0.00018533	509.41	0.73328620
312.5					0.04339118		0.00017731	511.04	0.73794158
313.5					0.04349436		0.00016961	512.68	0.74277900
314.5					0.04359754		0.00016224	514.31	0.74780774
315.5					0.04370072		0.00015516	515.95	0.75303764
316.5					0.04380390		0.00014838	517.58	0.75847900
317.5					0.04390709		0.00014188	519.22	0.76414269
318.5					0.04401027		0.00013565	520.85	0.77004013
319.5					0.04411345		0.00012968	522.49	0.77618338
320.5					0.04421663		0.00012396	524.12	0.78258508

PGS - 2011 CASE

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38400 House Regulator Installs

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 61.149640 FIT INDEX 0.001254 VARIANCE 0.621293

FITTED RANGE AGE 0.5 TO 56.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
321.5					0.04431981		0.00011848	525.76	0.78925858
322.5					0.04442300		0.00011323	527.39	0.79621793
323.5					0.04452618		0.00010820	529.03	0.80347792
324.5					0.04462936		0.00010338	530.67	0.81105413
325.5					0.04473254		0.00009877	532.30	0.81896296
326.5					0.04483572		0.00009435	533.94	0.82722172
327.5					0.04493891		0.00009012	535.57	0.83584861
328.5					0.04504209		0.00008607	537.21	0.84486278
329.5					0.04514527		0.00008219	538.84	0.85428449
330.5					0.04524845		0.00007848	540.48	0.86413502
331.5					0.04535163		0.00007493	542.11	0.87443683
332.5					0.04545482		0.00007153	543.75	0.88521358
333.5					0.04555800		0.00006828	545.38	0.89649022
334.5					0.04566118		0.00006517	547.02	0.90829304
335.5					0.04576436		0.00006219	548.65	0.92064979
336.5					0.04586754		0.00005935	550.29	0.93358969
337.5					0.04597073		0.00005663	551.92	0.94714357
338.5					0.04607391		0.00005402	553.56	0.96134396
339.5					0.04617709		0.00005153	555.20	0.97622516
340.5							0.00004915	556.83	0.99182334

EQUIVALENT H CURVE IS -0.30

EQUIVALENT L CURVE IS 0.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS

Peoples Gas System
Net Salvage Analysis
Account - 384.00 - House Regulator Installs
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	162,024	(41,965)	(26)	0	0	(41,965)	(26)
2009	175,395	(43,322)	(25)	0	0	(43,322)	(25)
2008	231,216	(66,549)	(29)	0	0	(66,549)	(29)
2007	369,613	(92,255)	(25)	13,324	4	(78,931)	(21)
2006	0	0	0	0	0	0	0
2005	212,432	(61,527)	(29)	0	0	(61,527)	(29)
2004	163,583	(105,439)	(64)	0	0	(105,439)	(64)
2003	124,423	(115,682)	(93)	0	0	(115,682)	(93)
2002	188,389	(259,359)	(138)	0	0	(259,359)	(138)
2001	113,213	(327,387)	(289)	0	0	(327,387)	(289)
2000	78,823	(43,910)	(56)	47	0	(43,862)	(56)
1999	29,590	(12,996)	(44)	0	0	(12,996)	(44)
1998	33,156	(4,680)	(14)	0	0	(4,680)	(14)
1997	86,862	(17,728)	(20)	0	0	(17,728)	(20)
1996	106,344	(22,907)	(22)	0	0	(22,907)	(22)
1995	76,352	(20,383)	(27)	0	0	(20,383)	(27)
1994	3,586	0	0	0	0	0	0
1993	6,015	0	0	0	0	0	0
1992	7,520	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1990	20,586	0	0	0	0	0	0
1989	12,127	0	0	0	0	0	0
1988	8,208	0	0	0	0	0	0
1987	17,156	0	0	0	0	0	0
1986	4,907	0	0	0	0	0	0
1985	1,821	0	0	0	0	0	0
1984	2,671	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	2,236,012	**(1,236,090)**	**(55)**	**13,371**	**1**	**(1,222,718)**	**(55)**

Peoples Gas System
Net Salvage Analysis
Account - 384.00 - House Regulator Installs
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	938,249	(244,090)	(26)	13,324	1	(230,767)	(25)
2009	988,657	(263,653)	(27)	13,324	1	(250,329)	(25)
2008	976,844	(325,770)	(33)	13,324	1	(312,446)	(32)
2007	870,051	(374,903)	(43)	13,324	2	(361,579)	(42)
2006	688,827	(542,008)	(79)	0	0	(542,008)	(79)
2005	802,039	(869,395)	(108)	0	0	(869,395)	(108)
2004	668,430	(851,778)	(127)	47	0	(851,730)	(127)
2003	534,437	(759,334)	(142)	47	0	(759,287)	(142)
2002	443,170	(648,332)	(146)	47	0	(648,285)	(146)
2001	341,643	(406,701)	(119)	47	0	(406,654)	(119)
2000	334,774	(102,221)	(31)	47	0	(102,174)	(31)
1999	332,304	(78,695)	(24)	0	0	(78,695)	(24)
1998	306,301	(65,699)	(21)	0	0	(65,699)	(21)
1997	279,159	(61,019)	(22)	0	0	(61,019)	(22)
1996	199,818	(43,291)	(22)	0	0	(43,291)	(22)
1995	93,474	(20,383)	(22)	0	0	(20,383)	(22)
1994	37,707	0	0	0	0	0	0
1993	46,248	0	0	0	0	0	0
1992	48,441	0	0	0	0	0	0
1991	58,076	0	0	0	0	0	0
1990	62,983	0	0	0	0	0	0
1989	44,218	0	0	0	0	0	0
1988	34,763	0	0	0	0	0	0
1987	26,555	0	0	0	0	0	0
1986	9,399	0	0	0	0	0	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500. Meas & Reg Station Eqp Ind

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: 0.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	11500.	0.015609	180.	11320.
2010	1.50	0.	0.046822	0.	0.
2009	2.50	0.	0.078015	0.	0.
2008	3.50	36582.	0.109189	3994.	32588.
2007	4.50	58087.	0.140312	8150.	49937.
2006	5.50	426246.	0.171400	73059.	353187.
2005	6.50	330015.	0.202412	66799.	263216.
2004	7.50	179609.	0.233339	41910.	137699.
2003	8.50	602389.	0.264154	159123.	443266.
2002	9.50	220939.	0.294832	65140.	155799.
2001	10.50	68811.	0.325329	22386.	46425.
2000	11.50	707613.	0.355618	251640.	455973.
1999	12.50	485437.	0.385641	187204.	298233.
1998	13.50	380900.	0.415360	158211.	222689.
1997	14.50	292567.	0.444715	130109.	162458.
1996	15.50	240386.	0.473661	113861.	126525.
1995	16.50	211263.	0.502139	106083.	105180.
1994	17.50	656860.	0.530093	348197.	308663.
1993	18.50	386572.	0.557476	215505.	171067.
1992	19.50	235065.	0.584233	137333.	97732.
1991	20.50	330338.	0.610324	201613.	128725.
1990	21.50	1340418.	0.635703	852108.	488310.
1989	22.50	291410.	0.660358	192435.	98975.
1988	23.50	522558.	0.684275	357573.	164985.
1987	24.50	240520.	0.707454	170157.	70363.
1986	25.50	414717.	0.729914	302708.	112009.
1985	26.50	218903.	0.751692	164548.	54355.
1984	27.50	178697.	0.772798	138097.	40600.
1983	28.50	189686.	0.793060	150432.	39254.
1982	29.50	91030.	0.812161	73931.	17099.
1981	30.50	46134.	0.829824	38283.	7851.
1980	31.50	31791.	0.845905	26892.	4899.
1979	32.50	4977.	0.860398	4282.	695.
1978	33.50	14900.	0.873412	13014.	1886.
1977	34.50	6344.	0.885130	5615.	729.
1976	35.50	4414.	0.895763	3954.	460.
1975	36.50	5066.	0.905548	4588.	478.
1974	37.50	15464.	0.914708	14145.	1319.
1973	38.50	2456.	0.923422	2268.	188.
1972	39.50	5560.	0.931818	5181.	379.
1971	40.50	7559.	0.939975	7105.	454.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500. Meas & Reg Station Eqp Ind

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: 0.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
	1970	41.50	7996.	0.947896	7579.	417.
	1969	42.50	4138.	0.955519	3954.	184.
	1968	43.50	3537.	0.962722	3405.	132.
	1967	44.50	16009.	0.969427	15520.	489.
	1966	45.50	1483.	0.975556	1447.	36.
SUBTOTAL :				0.509053	4849718.	4677228.
NET SALVAGE:	0.0%				0.	0.
TOTAL :			9526946.	0.509053	4849718.	4677228.

WEIGHTED AGE: 17.2 YEARS
REMAINING LIFE: 15.7 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500. Meas & Reg Station Eqp Ind

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	11500.	0.031250	359.
2010	1.50 - 2.50	0.	0.031250	0.
2009	2.50 - 3.50	0.	0.031250	0.
2008	3.50 - 4.50	36582.	0.031250	1143.
2007	4.50 - 5.50	58087.	0.031250	1815.
2006	5.50 - 6.50	426246.	0.031250	13320.
2005	6.50 - 7.50	330015.	0.031250	10313.
2004	7.50 - 8.50	179609.	0.031250	5613.
2003	8.50 - 9.50	602389.	0.031250	18825.
2002	9.50 - 10.50	220939.	0.031250	6904.
2001	10.50 - 11.50	68811.	0.031250	2150.
2000	11.50 - 12.50	707613.	0.031250	22113.
1999	12.50 - 13.50	485437.	0.031250	15170.
1998	13.50 - 14.50	380900.	0.031250	11903.
1997	14.50 - 15.50	292567.	0.031250	9143.
1996	15.50 - 16.50	240386.	0.031250	7512.
1995	16.50 - 17.50	211263.	0.031250	6602.
1994	17.50 - 18.50	656860.	0.031250	20527.
1993	18.50 - 19.50	386572.	0.031250	12080.
1992	19.50 - 20.50	235065.	0.031250	7346.
1991	20.50 - 21.50	330338.	0.031250	10323.
1990	21.50 - 22.50	1340418.	0.031250	41888.
1989	22.50 - 23.50	291410.	0.031250	9107.
1988	23.50 - 24.50	522558.	0.031250	16330.
1987	24.50 - 25.50	240520.	0.031250	7516.
1986	25.50 - 26.50	414717.	0.031250	12960.
1985	26.50 - 27.50	218903.	0.031250	6841.
1984	27.50 - 28.50	178697.	0.031250	5584.
1983	28.50 - 29.50	189686.	0.031250	5928.
1982	29.50 - 30.50	91030.	0.031250	2845.
1981	30.50 - 31.50	46134.	0.031250	1442.
1980	31.50 - 32.50	31791.	0.031250	993.
1979	32.50 - 33.50	4977.	0.031250	156.
1978	33.50 - 34.50	14900.	0.031250	466.
1977	34.50 - 35.50	6344.	0.031250	198.
1976	35.50 - 36.50	4414.	0.031250	138.
1975	36.50 - 37.50	5066.	0.031250	158.
1974	37.50 - 38.50	15464.	0.031250	483.
1973	38.50 - 39.50	2456.	0.031250	77.
1972	39.50 - 40.50	5560.	0.031250	174.
1971	40.50 - 41.50	7559.	0.031250	236.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500. Meas & Reg Station Eqp Ind

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 32.0 YRS CURVE: IOWA R4 O.C. SALVAGE %: 0.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
	1970	41.50 - 42.50	7996.	0.031250	250.
	1969	42.50 - 43.50	4138.	0.031250	129.
	1968	43.50 - 44.50	3537.	0.031250	111.
	1967	44.50 - 45.50	16009.	0.031250	500.
	1966	45.50 - 46.50	1483.	0.031250	46.
SUBTOTAL :			9526946.	0.031250	297716.
NET SALVAGE:	0.0 %				0.
TOTAL :			9526946.	0.031250	297716.

MONTHLY RATE: 0.002604

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38500. Meas & Reg Station Eqp Ind

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 32.0 YRS CURVE: IOWA R4

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	11500.	31.5	362257.
2010	1.50	0.	30.5	0.
2009	2.50	0.	29.5	0.
2008	3.50	36582.	28.5	1042809.
2007	4.50	58087.	27.5	1597981.
2006	5.50	426246.	26.5	11302046.
2005	6.50	330015.	25.5	8422949.
2004	7.50	179609.	24.5	4406395.
2003	8.50	602389.	23.5	14184564.
2002	9.50	220939.	22.6	4985592.
2001	10.50	68811.	21.6	1485599.
2000	11.50	707613.	20.6	14591205.
1999	12.50	485437.	19.7	9543487.
1998	13.50	380900.	18.7	7126095.
1997	14.50	292567.	17.8	5198683.
1996	15.50	240386.	16.8	4048802.
1995	16.50	211263.	15.9	3365765.
1994	17.50	656860.	15.0	9877255.
1993	18.50	386572.	14.2	5474179.
1992	19.50	235065.	13.3	3127447.
1991	20.50	330338.	12.5	4119216.
1990	21.50	1340418.	11.7	15625981.
1989	22.50	291410.	10.9	3167219.
1988	23.50	522558.	10.1	5279528.
1987	24.50	240520.	9.4	2251631.
1986	25.50	414717.	8.6	3584311.
1985	26.50	218903.	7.9	1739377.
1984	27.50	178697.	7.3	1299217.
1983	28.50	189686.	6.6	1256121.
1982	29.50	91030.	6.0	547169.
1981	30.50	46134.	5.4	251230.
1980	31.50	31791.	4.9	156764.
1979	32.50	4977.	4.5	22234.
1978	33.50	14900.	4.1	60357.
1977	34.50	6344.	3.7	23320.
1976	35.50	4414.	3.3	14723.
1975	36.50	5066.	3.0	15312.
1974	37.50	15464.	2.7	42207.
1973	38.50	2456.	2.5	6018.
1972	39.50	5560.	2.2	12131.
1971	40.50	7559.	1.9	14519.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500. Meas & Reg Station Eqp Ind

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 32.0 YRS CURVE: IOWA R4

	I	II	III	IV	V
	YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
	1970	41.50	7996.	1.7	13332.
	1969	42.50	4138.	1.4	5890.
	1968	43.50	3537.	1.2	4219.
	1967	44.50	16009.	1.0	15662.
	1966	45.50	1483.	0.8	1160.
TOTAL:			9526946.	15.7	149671957.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500. Meas & Reg Station Eqp Ind

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 32.0 YEARS CURVE: IOWA R4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0156	99.99844	0.00156	49.99961	0.031250	1.56248	1.56092	0.015609
1.50	0.0469	99.99462	0.00381	99.99653	0.031250	3.12488	4.68198	0.046822
2.50	0.0781	99.98856	0.00606	99.99159	0.031250	3.12472	7.80065	0.078015
3.50	0.1094	99.98019	0.00837	99.98438	0.031250	3.12450	10.91677	0.109189
4.50	0.1406	99.96569	0.01450	99.97294	0.031250	3.12414	14.02641	0.140312
5.50	0.1719	99.94650	0.01919	99.95610	0.031250	3.12361	17.13084	0.171400
6.50	0.2031	99.91725	0.02925	99.93188	0.031250	3.12286	20.22444	0.202412
7.50	0.2344	99.87600	0.04125	99.89663	0.031250	3.12176	23.30495	0.233339
8.50	0.2656	99.81819	0.05781	99.84710	0.031250	3.12021	26.36735	0.264154
9.50	0.2969	99.73906	0.07913	99.77863	0.031250	3.11807	29.40629	0.294832
10.50	0.3281	99.63031	0.10875	99.68469	0.031250	3.11513	32.41267	0.325329
11.50	0.3594	99.48519	0.14513	99.55775	0.031250	3.11117	35.37871	0.355618
12.50	0.3906	99.29144	0.19375	99.38831	0.031250	3.10587	38.29083	0.385641
13.50	0.4219	99.03819	0.25325	99.16481	0.031250	3.09889	41.13647	0.415360
14.50	0.4531	98.70950	0.32869	98.87384	0.031250	3.08979	43.89758	0.444715
15.50	0.4844	98.28994	0.41956	98.49972	0.031250	3.07810	46.55612	0.473661
16.50	0.5156	97.75925	0.53069	98.02459	0.031250	3.06326	49.08868	0.502139
17.50	0.5469	97.09581	0.66344	97.42753	0.031250	3.04460	51.46984	0.530093
18.50	0.5781	96.27625	0.81956	96.68603	0.031250	3.02143	53.67171	0.557476
19.50	0.6094	95.27350	1.00275	95.77488	0.031250	2.99295	55.66191	0.584233
20.50	0.6406	94.06075	1.21275	94.66713	0.031250	2.95833	57.40749	0.610324
21.50	0.6719	92.60744	1.45331	93.33409	0.031250	2.91668	58.87086	0.635703
22.50	0.7031	90.88819	1.71925	91.74781	0.031250	2.86711	60.01871	0.660358
23.50	0.7344	88.87694	2.01125	89.88256	0.031250	2.80882	60.81628	0.684275
24.50	0.7656	86.54925	2.32769	87.71309	0.031250	2.74102	61.22962	0.707454
25.50	0.7969	83.88656	2.66269	85.21791	0.031250	2.66305	61.22998	0.729914
26.50	0.8281	80.87619	3.01037	82.38137	0.031250	2.57441	60.79401	0.751692
27.50	0.8594	77.49750	3.37869	79.18684	0.031250	2.47458	59.88990	0.772798
28.50	0.8906	73.67156	3.82594	75.58453	0.031250	2.36201	58.42597	0.793060
29.50	0.9219	69.27275	4.39882	71.47216	0.031250	2.23350	56.26065	0.812161
30.50	0.9531	64.20700	5.06575	66.73987	0.031250	2.08561	53.28051	0.829824
31.50	0.9844	58.46825	5.73875	61.33762	0.031250	1.91679	49.45856	0.845905
32.50	1.0156	52.15681	6.31144	55.31253	0.031250	1.72851	44.87563	0.860398
33.50	1.0469	45.46875	6.68806	48.81278	0.031250	1.52539	39.71296	0.873412
34.50	1.0781	38.66325	6.80550	42.06600	0.031250	1.31456	34.22202	0.885130
35.50	1.1094	32.01281	6.65044	35.33803	0.031250	1.10431	28.67589	0.895763
36.50	1.1406	25.77031	6.24250	28.89156	0.031250	0.90286	23.33625	0.905548
37.50	1.1719	20.12950	5.64082	22.94991	0.031250	0.71718	18.41261	0.914708
38.50	1.2031	15.20962	4.91987	17.66956	0.031250	0.55217	14.04491	0.923422

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500. Meas & Reg Station Eqp Ind

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 32.0 YEARS CURVE: IOWA R4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.2344	11.06187	4.14775	13.13575	0.031250	0.41049	10.30765	0.931818
40.50	1.2656	7.68519	3.37669	9.37353	0.031250	0.29292	7.22388	0.939975
41.50	1.2969	5.03806	2.64712	6.36162	0.031250	0.19880	4.77556	0.947896
42.50	1.3281	3.05769	1.98038	4.04787	0.031250	0.12650	2.92168	0.955519
43.50	1.3594	1.66781	1.38987	2.36275	0.031250	0.07384	1.60564	0.962722
44.50	1.3906	0.78169	0.88612	1.22475	0.031250	0.03827	0.75779	0.969427
45.50	1.4219	0.29163	0.49006	0.53666	0.031250	0.01677	0.28450	0.975556
46.50	1.4531	0.07375	0.21788	0.18269	0.031250	0.00571	0.07233	0.980754
47.50	1.4844	0.00894	0.06481	0.04134	0.031250	0.00129	0.00881	0.985743
48.50	1.5156	0.00000	0.00894	0.00447	0.031250	0.00014	0.00000	1.000000
		3200.01393	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	11500.	0.	0.	0.	0.	0.	0.	0.	0
2010	0.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	36582.	0.	0.	0.	0.	0.	0.	0.	0
2007	58087.	0.	0.	0.	0.	0.	0.	0.	0
2006	426246.	0.	0.	0.	0.	0.	0.	0.	0
2005	330015.	0.	0.	0.	0.	0.	0.	0.	0
2004	179609.	1104.	0.	2239.	0.	0.	0.	0.	0
2003	602389.	0.	0.	0.	0.	0.	0.	0.	0
2002	220939.	0.	0.	0.	0.	0.	0.	0.	2699
2001	68811.	0.	1300.	0.	0.	0.	0.	0.	0
2000	707613.	0.	0.	5855.	0.	0.	0.	0.	0
1999	485437.	0.	0.	0.	15000.	0.	0.	0.	50123
1998	380900.	0.	0.	0.	18666.	0.	0.	0.	0
1997	292567.	0.	0.	0.	0.	0.	0.	0.	0
1996	240386.	0.	2340.	2581.	0.	0.	0.	0.	0
1995	211263.	0.	10117.	0.	0.	0.	0.	0.	0
1994	656860.	0.	0.	3404.	0.	0.	29821.	0.	0
1993	386572.	0.	0.	0.	0.	0.	0.	0.	13042
1992	235065.	0.	0.	4971.	0.	0.	0.	0.	0
1991	330338.	0.	0.	0.	0.	0.	0.	0.	0
1990	1340418.	0.	0.	0.	0.	0.	0.	0.	0
1989	291410.	0.	0.	0.	5257.	0.	2126.	0.	0
1988	522558.	0.	6107.	0.	0.	0.	0.	0.	0
1987	240520.	0.	0.	0.	0.	0.	0.	0.	0
1986	414717.	0.	0.	8403.	12770.	0.	0.	0.	963
1985	218903.	0.	13839.	0.	0.	0.	0.	0.	5047
1984	178697.	0.	0.	9407.	0.	0.	0.	0.	0
1983	189686.	0.	2262.	1930.	0.	0.	0.	0.	34099
1982	91030.	0.	0.	0.	0.	0.	0.	0.	3139
1981	46134.	0.	4173.	0.	0.	0.	0.	0.	743
1980	31791.	0.	0.	0.	0.	0.	0.	0.	0
1979	4977.	0.	0.	0.	0.	0.	0.	0.	528
1978	14900.	0.	0.	2183.	0.	0.	0.	0.	0
1977	6344.	0.	0.	0.	0.	0.	0.	0.	0
1976	4414.	0.	0.	0.	0.	0.	0.	0.	0
1975	5066.	0.	0.	0.	0.	0.	0.	0.	0
1974	15464.	0.	0.	0.	0.	0.	0.	0.	0
1973	2456.	0.	0.	0.	0.	0.	0.	0.	0
1972	5560.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	7559.	0.	0.	0.	0.	0.	0.	0.	0
1970	7996.	168.	1029.	0.	0.	0.	0.	0.	0
1969	4138.	0.	0.	0.	0.	0.	0.	0.	0
1968	3537.	0.	0.	0.	0.	0.	0.	0.	0
1967	16009.	0.	2668.	2668.	0.	0.	0.	0.	0
1966	1483.	0.	0.	0.	0.	0.	0.	0.	742
TOTAL	9526946.	1272.	43835.	43641.	51693.	0.	31947.	0.	111125

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	11500.	0.	0.	0.	0.	0.	0.	0.	0
2010	0.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	36582.	0.	0.	0.	0.	0.	0.	0.	0
2007	58087.	0.	0.	0.	0.	0.	0.	0.	0
2006	426246.	0.	0.	0.	0.	0.	0.	0.	0
2005	330015.	0.	0.	0.	0.	0.	0.	0.	0
2004	179609.	0.	0.	0.	0.	0.	0.	0.	0
2003	602389.	0.	0.	0.	0.	0.	0.	0.	0
2002	220939.	0.	0.	0.	0.	0.	0.	0.	0
2001	68811.	0.	0.	0.	0.	0.	0.	0.	0
2000	707613.	0.	0.	0.	0.	0.	0.	0.	0
1999	485437.	50123.	0.	0.	0.	0.	0.	0.	0
1998	380900.	0.	4750.	0.	0.	0.	0.	0.	0
1997	292567.	1435.	0.	0.	0.	0.	0.	0.	0
1996	240386.	1847.	0.	0.	0.	0.	0.	0.	0
1995	211263.	9907.	715.	0.	0.	0.	0.	0.	0
1994	656860.	0.	0.	0.	0.	0.	0.	0.	0
1993	386572.	15279.	0.	0.	0.	0.	0.	0.	0
1992	235065.	0.	5656.	0.	0.	0.	0.	0.	0
1991	330338.	0.	0.	0.	0.	0.	0.	0.	0
1990	1340418.	21692.	0.	0.	0.	0.	0.	0.	0
1989	291410.	0.	0.	0.	0.	0.	0.	0.	0
1988	522558.	0.	3711.	0.	0.	0.	0.	0.	0
1987	240520.	0.	0.	0.	0.	0.	0.	0.	0
1986	414717.	1488.	0.	0.	0.	0.	0.	0.	0
1985	218903.	6559.	0.	579.	0.	0.	0.	0.	0
1984	178697.	17523.	0.	0.	0.	0.	0.	0.	0
1983	189686.	55398.	38.	0.	0.	0.	0.	0.	0
1982	91030.	26955.	111459.	0.	0.	0.	0.	0.	0
1981	46134.	48499.	32532.	0.	0.	1472.	0.	0.	0
1980	31791.	11121.	13643.	0.	0.	0.	0.	0.	0
1979	4977.	779.	0.	0.	0.	0.	0.	0.	0
1978	14900.	0.	6549.	0.	7066.	0.	0.	0.	0
1977	6344.	0.	0.	0.	0.	0.	0.	0.	0
1976	4414.	727.	0.	2735.	0.	0.	0.	0.	0
1975	5066.	7610.	0.	0.	0.	0.	0.	0.	0
1974	15464.	1007.	0.	0.	0.	0.	0.	0.	0
1973	2456.	0.	0.	0.	0.	0.	0.	0.	0
1972	5560.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	7559.	0.	2857.	0.	0.	0.	0.	0.	0
1970	7996.	0.	5052.	0.	0.	0.	0.	0.	0
1969	4138.	2967.	6419.	0.	0.	0.	0.	0.	4284
1968	3537.	0.	2065.	0.	0.	0.	0.	0.	0
1967	16009.	0.	5892.	0.	0.	0.	0.	0.	3605
1966	1483.	742.	5956.	0.	0.	0.	0.	0.	845
TOTAL	9526946.	281658.	207294.	3314.	7066.	1472.	0.	0.	8734

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	11500.	0.	0.	0.	0.	0.	0.	0.	0
2010	0.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	36582.	0.	0.	0.	0.	0.	0.	0.	0
2007	58087.	0.	0.	0.	0.	0.	0.	0.	0
2006	426246.	0.	0.	0.	0.	0.	0.	0.	0
2005	330015.	0.	0.	0.	0.	0.	0.	0.	0
2004	179609.	0.	0.	0.	0.	0.	0.	0.	0
2003	602389.	0.	0.	0.	0.	0.	0.	0.	0
2002	220939.	0.	0.	0.	0.	0.	0.	0.	0
2001	68811.	0.	0.	0.	0.	0.	0.	0.	0
2000	707613.	0.	0.	0.	0.	0.	0.	0.	0
1999	485437.	0.	0.	0.	0.	0.	0.	0.	0
1998	380900.	0.	0.	0.	0.	0.	0.	0.	0
1997	292567.	0.	0.	0.	0.	0.	0.	0.	0
1996	240386.	0.	0.	0.	0.	0.	0.	0.	0
1995	211263.	0.	0.	0.	0.	0.	0.	0.	0
1994	656860.	0.	0.	0.	0.	0.	0.	0.	0
1993	386572.	0.	0.	0.	0.	0.	0.	0.	0
1992	235065.	0.	0.	0.	0.	0.	0.	0.	0
1991	330338.	0.	0.	0.	0.	0.	0.	0.	0
1990	1340418.	0.	22006.	0.	0.	0.	0.	0.	0
1989	291410.	0.	0.	0.	0.	0.	0.	0.	0
1988	522558.	0.	0.	0.	0.	0.	0.	0.	0
1987	240520.	0.	0.	0.	0.	0.	0.	0.	0
1986	414717.	17405.	0.	0.	0.	0.	0.	0.	0
1985	218903.	0.	0.	0.	0.	0.	0.	0.	0
1984	178697.	0.	0.	17719.	0.	0.	0.	0.	0
1983	189686.	0.	0.	0.	0.	0.	0.	0.	0
1982	91030.	0.	0.	0.	0.	0.	0.	0.	0
1981	46134.	0.	11426.	0.	0.	0.	0.	0.	0
1980	31791.	0.	0.	0.	66.	0.	0.	0.	0
1979	4977.	0.	0.	0.	227.	0.	0.	0.	0
1978	14900.	0.	0.	0.	0.	0.	0.	0.	0
1977	6344.	0.	0.	0.	0.	0.	0.	0.	0
1976	4414.	0.	1889.	0.	3692.	0.	0.	0.	0
1975	5066.	0.	772.	0.	0.	0.	0.	0.	0
1974	15464.	0.	0.	0.	0.	0.	0.	0.	0
1973	2456.	0.	0.	0.	3223.	0.	0.	0.	0
1972	5560.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	7559.	2046.	0.	0.	32481.	0.	0.	0.	0
1970	7996.	0.	0.	0.	0.	0.	0.	0.	0
1969	4138.	0.	0.	0.	0.	0.	0.	0.	0
1968	3537.	0.	0.	0.	0.	0.	0.	0.	0
1967	16009.	0.	0.	0.	0.	0.	0.	0.	0
1966	1483.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	9526946.	19451.	36093.	17719.	39689.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985
2011	11500.	0.	0.	0.
2010	0.	0.	0.	0.
2009	0.	0.	0.	0.
2008	36582.	0.	0.	0.
2007	58087.	0.	0.	0.
2006	426246.	0.	0.	0.
2005	330015.	0.	0.	0.
2004	179609.	0.	0.	0.
2003	602389.	0.	0.	0.
2002	220939.	0.	0.	0.
2001	68811.	0.	0.	0.
2000	707613.	0.	0.	0.
1999	485437.	0.	0.	0.
1998	380900.	0.	0.	0.
1997	292567.	0.	0.	0.
1996	240386.	0.	0.	0.
1995	211263.	0.	0.	0.
1994	656860.	0.	0.	0.
1993	386572.	0.	0.	0.
1992	235065.	0.	0.	0.
1991	330338.	0.	0.	0.
1990	1340418.	0.	0.	0.
1989	291410.	0.	0.	0.
1988	522558.	0.	0.	0.
1987	240520.	0.	0.	0.
1986	414717.	0.	0.	0.
1985	218903.	0.	0.	0.
1984	178697.	0.	0.	0.
1983	189686.	0.	0.	0.
1982	91030.	0.	0.	0.
1981	46134.	0.	0.	0.
1980	31791.	0.	0.	0.
1979	4977.	0.	0.	0.
1978	14900.	0.	0.	0.
1977	6344.	0.	0.	0.
1976	4414.	0.	0.	0.
1975	5066.	0.	0.	0.
1974	15464.	0.	0.	6677.
1973	2456.	0.	0.	0.
1972	5560.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985
1971	7559.	0.	0.	0.
1970	7996.	0.	0.	0.
1969	4138.	0.	0.	0.
1968	3537.	0.	0.	0.
1967	16009.	0.	0.	0.
1966	1483.	0.	0.	0.
TOTAL	9526946.	0.	0.	6677.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1985 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	9270631.	0.	0.00000000	1.00000000	1.00000000
0.5	9482478.	0.	0.00000000	1.00000000	1.00000000
1.5	9765891.	2699.	0.00027637	0.99972363	1.00000000
2.5	9995774.	0.	0.00000000	1.00000000	0.99972363
3.5	10104171.	76879.	0.00760864	0.99239136	0.99972363
4.5	10025826.	52362.	0.00522271	0.99477729	0.99211709
5.5	9553729.	1435.	0.00015020	0.99984980	0.98693555
6.5	9252977.	3666.	0.00039620	0.99960380	0.98678731
7.5	9076046.	9907.	0.00109155	0.99890845	0.98639635
8.5	8477207.	57279.	0.00675682	0.99324318	0.98531964
9.5	8212437.	39601.	0.00482208	0.99517792	0.97866201
10.5	8127173.	19719.	0.00242630	0.99757370	0.97394283
11.5	7405520.	29887.	0.00403577	0.99596423	0.97157975
12.5	6895756.	35926.	0.00520987	0.99479013	0.96765867
13.5	6523873.	6051.	0.00092752	0.99907248	0.96261729
14.5	6239500.	13521.	0.00216700	0.99783300	0.96172445
15.5	6003401.	4271.	0.00071143	0.99928857	0.95964039
16.5	5793469.	8585.	0.00148184	0.99851816	0.95895767
17.5	5158866.	10883.	0.00210957	0.99789043	0.95753665
18.5	4771179.	31860.	0.00667759	0.99332241	0.95551666
19.5	4504254.	166857.	0.03704431	0.96295569	0.94913611
20.5	4007059.	126067.	0.03146123	0.96853877	0.91397601
21.5	2540574.	91224.	0.03590685	0.96409315	0.88522120
22.5	2157940.	20267.	0.00939183	0.99060817	0.85343570
23.5	1615115.	9374.	0.00580392	0.99419608	0.84542038
24.5	1365221.	26509.	0.01941737	0.98058263	0.84051363
25.5	923995.	1930.	0.00208876	0.99791124	0.82419306
26.5	703162.	7273.	0.01034328	0.98965672	0.82247153
27.5	517192.	7610.	0.01471407	0.98528593	0.81396447
28.5	319896.	8785.	0.02746205	0.97253795	0.80198774
29.5	220081.	845.	0.00383950	0.99616050	0.77996351
30.5	173102.	5040.	0.02911578	0.97088422	0.77696885
31.5	136271.	5052.	0.03707319	0.96292681	0.75434679
32.5	126242.	6419.	0.05084679	0.94915321	0.72638075
33.5	104923.	5032.	0.04795898	0.95204102	0.68944663
34.5	93547.	5892.	0.06298438	0.93701562	0.65638147
35.5	83241.	5956.	0.07155128	0.92844872	0.61503969
36.5	72219.	742.	0.01027430	0.98972570	0.57103281
37.5	56013.	742.	0.01324692	0.98675308	0.56516585
38.5	52815.	0.	0.00000000	1.00000000	0.55767914

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1985 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	47255.	1029.	0.02177547	0.97822453	0.55767914
40.5	38667.	168.	0.00434479	0.99565521	0.54553541
41.5	30503.	2668.	0.08746681	0.91253319	0.54316517
42.5	23697.	2668.	0.11258809	0.88741191	0.49565625
43.5	17492.	0.	0.00000000	1.00000000	0.43985126
44.5	1483.	0.	0.00000000	1.00000000	0.43985126
TOTAL		912680.			36.84930340

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 1 AVG LIFE 49.326840 FIT INDEX 0.001155 VARIANCE 0.236333

FITTED RANGE AGE 0.5 TO 44.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	9270631.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	9482478.	0.	0.	0.00000000	0.00000000	1.00000000	1.00000000	1.01	0.01013655
1.5	9765891.	2699.	0.	0.00027637	0.00000000	1.00000000	1.00000000	3.04	0.03040948
2.5	9995774.	0.	0.	0.00000000	0.00000000	0.99972363	1.00000000	5.07	0.05068242
3.5	10104171.	76879.	6121.	0.00760864	0.00060583	0.99972363	1.00000000	7.10	0.07095536
4.5	10025826.	52362.	13359.	0.00522271	0.00133249	0.99211709	0.99939417	9.12	0.09067125
5.5	9553729.	1435.	19673.	0.00015020	0.00205915	0.98693555	0.99806248	11.15	0.10974441
6.5	9252977.	3666.	25777.	0.00039620	0.00278581	0.98678731	0.99600732	13.18	0.12820130
7.5	9076046.	9907.	31879.	0.00109155	0.00351247	0.98639635	0.99323263	15.20	0.14606708
8.5	8477207.	57279.	35936.	0.00675682	0.00423913	0.98531964	0.98974393	17.23	0.16336576
9.5	8212437.	39601.	40781.	0.00482208	0.00496579	0.97866201	0.98554828	19.26	0.18012012
10.5	8127173.	19719.	46264.	0.00242630	0.00569245	0.97394283	0.98065426	21.29	0.19635201
11.5	7405520.	29887.	47537.	0.00403577	0.00641911	0.97157975	0.97507194	23.31	0.21208209
12.5	6895756.	35926.	49275.	0.00520987	0.00714577	0.96765867	0.96881285	25.34	0.22733009
13.5	6523873.	6051.	51359.	0.00092752	0.00787243	0.96261729	0.96188994	27.37	0.24211489
14.5	6239500.	13521.	53654.	0.00216700	0.00859908	0.96172445	0.95431753	29.40	0.25645455
15.5	6003401.	4271.	55986.	0.00071143	0.00932574	0.95964039	0.94611127	31.42	0.27036617
16.5	5793469.	8585.	58238.	0.00148184	0.01005240	0.95895767	0.93728808	33.45	0.28386607
17.5	5158866.	10883.	55608.	0.00210957	0.01077906	0.95753665	0.92786608	35.48	0.29696993
18.5	4771179.	31860.	54896.	0.00667759	0.01150572	0.95551666	0.91786456	37.50	0.30969274
19.5	4504254.	166857.	55098.	0.03704431	0.01223238	0.94913611	0.90730386	39.53	0.32204871
20.5	4007059.	126067.	51928.	0.03146123	0.01295904	0.91397601	0.89620538	41.56	0.33405154
21.5	2540574.	91224.	34770.	0.03590685	0.01368570	0.88522120	0.88459142	43.59	0.34571422
22.5	2157940.	20267.	31101.	0.00939183	0.01441236	0.85343570	0.87248517	45.61	0.35704921
23.5	1615115.	9374.	24451.	0.00580392	0.01513902	0.84542038	0.85991060	47.64	0.36806846
24.5	1365221.	26509.	21660.	0.01941737	0.01586568	0.84051363	0.84689239	49.67	0.37878334
25.5	923995.	1930.	15331.	0.00208876	0.01659234	0.82419306	0.83345587	51.70	0.38920480
26.5	703162.	7273.	12178.	0.01034328	0.01731900	0.82247153	0.81962689	53.72	0.39934325
27.5	517192.	7610.	9333.	0.01471407	0.01804565	0.81396447	0.80543178	55.75	0.40920875
28.5	319896.	8785.	6005.	0.02746205	0.01877231	0.80198774	0.79089724	57.78	0.41881081
29.5	220081.	845.	4291.	0.00383950	0.01949897	0.77996351	0.77605026	59.81	0.42815869
30.5	173102.	5040.	3501.	0.02911578	0.02022563	0.77696885	0.76091808	61.83	0.43726115
31.5	136271.	5052.	2855.	0.03707319	0.02095229	0.75434679	0.74552803	63.86	0.44612662

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 1 AVG LIFE 49.326840 FIT INDEX 0.001155 VARIANCE 0.236333

FITTED RANGE AGE 0.5 TO 44.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	126242.	6419.	2737.	0.05084679	0.02167895	0.72638075	0.72990751	65.89	0.45476319
33.5	104923.	5032.	2351.	0.04795898	0.02240561	0.68944663	0.71408388	67.91	0.46317867
34.5	93547.	5892.	2164.	0.06298438	0.02313227	0.65638147	0.69808440	69.94	0.47138048
35.5	83241.	5956.	1986.	0.07155128	0.02385893	0.61503969	0.68193612	71.97	0.47937570
36.5	72219.	742.	1776.	0.01027430	0.02458559	0.57103281	0.66566586	74.00	0.48717125
37.5	56013.	742.	1418.	0.01324692	0.02531225	0.56516585	0.64930007	76.02	0.49477371
38.5	52815.	0.	1375.	0.00000000	0.02603891	0.55767914	0.63286483	78.05	0.50218935
39.5	47255.	1029.	1265.	0.02177547	0.02676557	0.55767914	0.61638572	80.08	0.50942430
40.5	38667.	168.	1063.	0.00434479	0.02749222	0.54553541	0.59988781	82.11	0.51648435
41.5	30503.	2668.	861.	0.08746681	0.02821888	0.54316517	0.58339556	84.13	0.52337513
42.5	23697.	2668.	686.	0.11258809	0.02894554	0.49565625	0.56693278	86.16	0.53010205
43.5	17492.	0.	519.	0.00000000	0.02967220	0.43985126	0.55052261	88.19	0.53667024
44.5	1483.	0.	45.	0.00000000	0.03039886	0.43985126	0.53418739	90.21	0.54308474
TOTAL (EXCEPT AGE 0)	912680.	937091.							

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 1 AVG LIFE 49.326840 FIT INDEX 0.001155 VARIANCE 0.236333

FITTED RANGE AGE 0.5 TO 44.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
45.5					0.03112552		0.51794870	92.24	0.54935029
46.5					0.03185218		0.50182728	94.27	0.55547157
47.5					0.03257884		0.48584298	96.30	0.56145295
48.5					0.03330550		0.47001478	98.32	0.56729874
49.5					0.03403216		0.45436071	100.35	0.57301305
50.5					0.03475882		0.43889783	102.38	0.57859988
51.5					0.03548548		0.42364226	104.41	0.58406302
52.5					0.03621214		0.40860911	106.43	0.58940614
53.5					0.03693880		0.39381251	108.46	0.59463281
54.5					0.03766545		0.37926555	110.49	0.59974645
55.5					0.03839211		0.36498034	112.51	0.60475032
56.5					0.03911877		0.35096797	114.54	0.60964764
57.5					0.03984543		0.33723853	116.57	0.61444147
58.5					0.04057209		0.32380112	118.60	0.61913476
59.5					0.04129875		0.31066383	120.62	0.62373039
60.5					0.04202541		0.29783380	122.65	0.62823110
61.5					0.04275207		0.28531721	124.68	0.63263958
62.5					0.04347873		0.27311931	126.71	0.63695840
63.5					0.04420539		0.26124443	128.73	0.64119003
64.5					0.04493205		0.24969602	130.76	0.64533685
65.5					0.04565871		0.23847667	132.79	0.64940123
66.5					0.04638537		0.22758813	134.82	0.65338538
67.5					0.04711202		0.21703137	136.84	0.65729148
68.5					0.04783868		0.20680659	138.87	0.66112163
69.5					0.04856534		0.19691323	140.90	0.66487786
70.5					0.04929200		0.18735007	142.92	0.66856212
71.5					0.05001866		0.17811521	144.95	0.67217632
72.5					0.05074532		0.16920613	146.98	0.67572230
73.5					0.05147198		0.16061971	149.01	0.67920185
74.5					0.05219864		0.15235229	151.03	0.68261670
75.5					0.05292530		0.14439971	153.06	0.68596852
76.5					0.05365196		0.13675731	155.09	0.68925891
77.5					0.05437862		0.12942002	157.12	0.69248947

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 1 AVG LIFE 49.326840 FIT INDEX 0.001155 VARIANCE 0.236333

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 44.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
78.5					0.05510528		0.12238233	159.14	0.69566171
79.5					0.05583194		0.11563842	161.17	0.69877709
80.5					0.05655859		0.10918211	163.20	0.70183707
81.5					0.05728525		0.10300692	165.22	0.70484304
82.5					0.05801191		0.09710614	167.25	0.70779636
83.5					0.05873857		0.09147283	169.28	0.71069831
84.5					0.05946523		0.08609985	171.31	0.71355020
85.5					0.06019189		0.08097990	173.33	0.71635325
86.5					0.06091855		0.07610556	175.36	0.71910869
87.5					0.06164521		0.07146932	177.39	0.72181767
88.5					0.06237187		0.06706358	179.42	0.72448135
89.5					0.06309853		0.06288070	181.44	0.72710082
90.5					0.06382519		0.05891302	183.47	0.72967719
91.5					0.06455185		0.05515289	185.50	0.73221150
92.5					0.06527851		0.05159267	187.52	0.73470482
93.5					0.06600516		0.04822477	189.55	0.73715813
94.5					0.06673182		0.04504169	191.58	0.73957244
95.5					0.06745848		0.04203598	193.61	0.74194871
96.5					0.06818514		0.03920029	195.63	0.74428792
97.5					0.06891180		0.03652742	197.66	0.74659096
98.5					0.06963846		0.03401025	199.69	0.74885879
99.5					0.07036512		0.03164182	201.72	0.75109228
100.5					0.07109178		0.02941534	203.74	0.75329234
101.5					0.07181844		0.02732415	205.77	0.75545986
102.5					0.07254510		0.02536178	207.80	0.75759570
103.5					0.07327176		0.02352190	209.82	0.75970075
104.5					0.07399842		0.02179841	211.85	0.76177587
105.5					0.07472508		0.02018536	213.88	0.76382193
106.5					0.07545174		0.01867701	215.91	0.76583978
107.5					0.07617839		0.01726780	217.93	0.76783029
108.5					0.07690505		0.01595237	219.96	0.76979435
109.5					0.07763171		0.01472555	221.99	0.77173284
110.5					0.07835837		0.01358238	224.02	0.77364667

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 1 AVG LIFE 49.326840 FIT INDEX 0.001155 VARIANCE 0.236333

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 44.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
111.5					0.07908503		0.01251809	226.04	0.77553676
112.5					0.07981169		0.01152809	228.07	0.77740403
113.5					0.08053835		0.01060802	230.10	0.77924950
114.5					0.08126501		0.00975366	232.13	0.78107414
115.5					0.08199167		0.00896103	234.15	0.78287900
116.5					0.08271833		0.00822630	236.18	0.78466516
117.5					0.08344499		0.00754584	238.21	0.78643380
118.5					0.08417165		0.00691617	240.23	0.78818609
119.5					0.08489831		0.00633403	242.26	0.78992332
120.5					0.08562496		0.00579628	244.29	0.79164685
121.5					0.08635162		0.00529997	246.32	0.79335815
122.5					0.08707828		0.00484231	248.34	0.79505878
123.5					0.08780494		0.00442065	250.37	0.79675042
124.5					0.08853160		0.00403250	252.40	0.79843492
125.5					0.08925826		0.00367549	254.43	0.80011426
126.5					0.08998492		0.00334743	256.45	0.80179061
127.5					0.09071158		0.00304621	258.48	0.80346635
128.5					0.09143824		0.00276988	260.51	0.80514410
129.5					0.09216490		0.00251661	262.53	0.80682676
130.5					0.09289156		0.00228467	264.56	0.80851751
131.5					0.09361822		0.00207244	266.59	0.81021988
132.5					0.09434488		0.00187842	268.62	0.81193781
133.5					0.09507153		0.00170120	270.64	0.81367568
134.5					0.09579819		0.00153947	272.67	0.81543837
135.5					0.09652485		0.00139199	274.70	0.81723134
136.5					0.09725151		0.00125763	276.73	0.81906073
137.5					0.09797817		0.00113532	278.75	0.82093338
138.5					0.09870483		0.00102408	280.78	0.82285702
139.5					0.09943149		0.00092300	282.81	0.82484032
140.5					0.10015815		0.00083123	284.83	0.82689310
141.5					0.10088481		0.00074797	286.86	0.82902639
142.5					0.10161147		0.00067251	288.89	0.83125267
143.5					0.10233813		0.00060418	290.92	0.83358606

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 1 AVG LIFE 49.326840 FIT INDEX 0.001155 VARIANCE 0.236333

FITTED RANGE AGE 0.5 TO 44.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
144.5					0.10306479		0.00054235	292.94	0.83604256
145.5					0.10379145		0.00048645	294.97	0.83864029
146.5					0.10451811		0.00043596	297.00	0.84139980
147.5					0.10524476		0.00039040	299.03	0.84434447
148.5					0.10597142		0.00034931	301.05	0.84750086
149.5					0.10669808		0.00031229	303.08	0.85089920
150.5					0.10742474		0.00027897	305.11	0.85457391
151.5					0.10815140		0.00024900	307.13	0.85856424
152.5					0.10887806		0.00022207	309.16	0.86291497
153.5					0.10960472		0.00019789	311.19	0.86767722
154.5					0.11033138		0.00017620	313.22	0.87290943
155.5					0.11105804		0.00015676	315.24	0.87867842
156.5					0.11178470		0.00013935	317.27	0.88506069
157.5					0.11251136		0.00012378	319.30	0.89214386
158.5					0.11323802		0.00010985	321.33	0.90002839
159.5					0.11396468		0.00009741	323.35	0.90882953
160.5					0.11469133		0.00008631	325.38	0.91867962
161.5					0.11541799		0.00007641	327.41	0.92973071
162.5					0.11614465		0.00006759	329.44	0.94215767
163.5					0.11687131		0.00005974	331.46	0.95616173
164.5					0.11759797		0.00005276	333.49	0.97197465
165.5							0.00004655	335.52	0.98986353

EQUIVALENT H CURVE IS 1.82

EQUIVALENT L CURVE IS 1.50

EQUIVALENT R CURVE IS 1.00

EQUIVALENT S CURVE IS 0.00

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 2 AVG LIFE 40.174800 FIT INDEX 0.001122 VARIANCE 0.134188

FITTED RANGE AGE 0.5 TO 44.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	9270631.	0.	7517.	0.00000000	0.00081089	1.00000000	1.00000000	0.00	0.00000000
0.5	9482478.	0.	14755.	0.00000000	0.00155607	1.00000000	0.99918911	1.24	0.01163891
1.5	9765891.	2699.	14430.	0.00027637	0.00147758	1.00000000	0.99763430	3.73	0.03500913
2.5	9995774.	0.	14691.	0.00000000	0.00146967	0.99972363	0.99616021	6.22	0.05849082
3.5	10104171.	76879.	15483.	0.00760864	0.00153235	0.99972363	0.99469618	8.71	0.08201457
4.5	10025826.	52362.	16699.	0.00522271	0.00166561	0.99211709	0.99317196	11.20	0.10551610
5.5	9553729.	1435.	17860.	0.00015020	0.00186945	0.98693555	0.99151772	13.69	0.12893573
6.5	9252977.	3666.	19837.	0.00039620	0.00214388	0.98678731	0.98966413	16.18	0.15221876
7.5	9076046.	9907.	22589.	0.00109155	0.00248888	0.98639635	0.98754241	18.67	0.17531533
8.5	8477207.	57279.	24622.	0.00675682	0.00290448	0.98531964	0.98508454	21.16	0.19817991
9.5	8212437.	39601.	27846.	0.00482208	0.00339065	0.97866201	0.98222338	23.65	0.22077173
10.5	8127173.	19719.	32081.	0.00242630	0.00394741	0.97394283	0.97889300	26.14	0.24305422
11.5	7405520.	29887.	33878.	0.00403577	0.00457475	0.97157975	0.97502891	28.62	0.26499495
12.5	6895756.	35926.	36359.	0.00520987	0.00527268	0.96765867	0.97056840	31.11	0.28656546
13.5	6523873.	6051.	39412.	0.00092752	0.00604118	0.96261729	0.96545091	33.60	0.30774098
14.5	6239500.	13521.	42929.	0.00216700	0.00688027	0.96172445	0.95961844	36.09	0.32850035
15.5	6003401.	4271.	46766.	0.00071143	0.00778995	0.95964039	0.95301600	38.58	0.34882566
16.5	5793469.	8585.	50810.	0.00148184	0.00877021	0.95895767	0.94559205	41.07	0.36870216
17.5	5158866.	10883.	50665.	0.00210957	0.00982105	0.95753665	0.93729902	43.56	0.38811793
18.5	4771179.	31860.	52208.	0.00667759	0.01094247	0.95551666	0.92809376	46.05	0.40706368
19.5	4504254.	166857.	54657.	0.03704431	0.01213448	0.94913611	0.91793812	48.54	0.42553260
20.5	4007059.	126067.	53683.	0.03146123	0.01339707	0.91397601	0.90679942	51.03	0.44352022
21.5	2540574.	91224.	37423.	0.03590685	0.01473024	0.88522120	0.89465096	53.52	0.46102400
22.5	2157940.	20267.	34816.	0.00939183	0.01613400	0.85343570	0.88147254	56.01	0.47804336
23.5	1615115.	9374.	28439.	0.00580392	0.01760834	0.84542038	0.86725086	58.49	0.49457930
24.5	1365221.	26509.	26148.	0.01941737	0.01915326	0.84051363	0.85198001	60.98	0.51063445
25.5	923995.	1930.	19190.	0.00208876	0.02076877	0.82419306	0.83566181	63.47	0.52621273
26.5	703162.	7273.	15789.	0.01034328	0.02245486	0.82247153	0.81830614	65.96	0.54131921
27.5	517192.	7610.	12522.	0.01471407	0.02421153	0.81396447	0.79993119	68.45	0.55596011
28.5	319896.	8785.	8330.	0.02746205	0.02603879	0.80198774	0.78056363	70.94	0.57014251
29.5	220081.	845.	6148.	0.00383950	0.02793663	0.77996351	0.76023869	73.43	0.58387424
30.5	173102.	5040.	5177.	0.02911578	0.02990505	0.77696885	0.73900019	75.92	0.59716389
31.5	136271.	5052.	4353.	0.03707319	0.03194406	0.75434679	0.71690035	78.41	0.61002057

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 2 AVG LIFE 40.174800 FIT INDEX 0.001122 VARIANCE 0.134188

FITTED RANGE AGE 0.5 TO 44.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	126242.	6419.	4299.	0.05084679	0.03405365	0.72638075	0.69399964	80.90	0.62245386
33.5	104923.	5032.	3802.	0.04795898	0.03623382	0.68944663	0.67036642	83.39	0.63447375
34.5	93547.	5892.	3600.	0.06298438	0.03848458	0.65638147	0.64607648	85.87	0.64609052
35.5	83241.	5956.	3397.	0.07155128	0.04080592	0.61503969	0.62121250	88.36	0.65731467
36.5	72219.	742.	3120.	0.01027430	0.04319784	0.57103281	0.59586336	90.85	0.66815689
37.5	56013.	742.	2558.	0.01324692	0.04566034	0.56516585	0.57012335	93.34	0.67862791
38.5	52815.	0.	2545.	0.00000000	0.04819343	0.55767914	0.54409132	95.83	0.68873855
39.5	47255.	1029.	2400.	0.02177547	0.05079710	0.55767914	0.51786969	98.32	0.69849964
40.5	38667.	168.	2068.	0.00434479	0.05347136	0.54553541	0.49156341	100.81	0.70792193
41.5	30503.	2668.	1715.	0.08746681	0.05621620	0.54316517	0.46527885	103.30	0.71701613
42.5	23697.	2668.	1399.	0.11258809	0.05903162	0.49565625	0.43912264	105.79	0.72579281
43.5	17492.	0.	1083.	0.00000000	0.06191762	0.43985126	0.41320052	108.28	0.73426243
44.5	1483.	0.	96.	0.00000000	0.06487421	0.43985126	0.38761612	110.77	0.74243524
TOTAL (EXCEPT AGE 0)	912680.	912680.							

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 2 AVG LIFE 40.174800 FIT INDEX 0.001122 VARIANCE 0.134188

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 44.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
45.5					0.06790138		0.36246983	113.26	0.75032135
46.5					0.07099914		0.33785763	115.74	0.75793066
47.5					0.07416748		0.31387003	118.23	0.76527283
48.5					0.07740640		0.29059108	120.72	0.77235730
49.5					0.08071590		0.26809747	123.21	0.77919330
50.5					0.08409599		0.24645774	125.70	0.78578979
51.5					0.08754666		0.22573163	128.19	0.79215549
52.5					0.09106791		0.20596958	130.68	0.79829888
53.5					0.09465975		0.18721236	133.17	0.80422817
54.5					0.09832217		0.16949089	135.66	0.80995133
55.5					0.10205518		0.15282617	138.15	0.81547609
56.5					0.10585876		0.13722947	140.64	0.82080990
57.5					0.10973293		0.12270253	143.12	0.82595998
58.5					0.11367769		0.10923802	145.61	0.83093332
59.5					0.11769302		0.09682010	148.10	0.83573669
60.5					0.12177894		0.08542505	150.59	0.84037659
61.5					0.12593545		0.07502207	153.08	0.84485932
62.5					0.13016253		0.06557414	155.57	0.84919102
63.5					0.13446020		0.05703884	158.06	0.85337754
64.5					0.13882845		0.04936939	160.55	0.85742460
65.5					0.14326729		0.04251551	163.04	0.86133776
66.5					0.14777671		0.03642443	165.53	0.86512238
67.5					0.15235671		0.03104175	168.02	0.86878372
68.5					0.15700730		0.02631233	170.50	0.87232691
69.5					0.16172847		0.02218110	172.99	0.87575702
70.5					0.16652022		0.01859379	175.48	0.87907908
71.5					0.17138255		0.01549754	177.97	0.88229811
72.5					0.17631547		0.01284154	180.46	0.88541923
73.5					0.18131897		0.01057737	182.95	0.88844769
74.5					0.18639306		0.00865950	185.44	0.89138907
75.5					0.19153773		0.00704543	187.93	0.89424932
76.5					0.19675298		0.00569596	190.42	0.89703507
77.5					0.20203881		0.00457526	192.91	0.89975386

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EXPERIENCE BAND 1985 TO 2011 DEGREE 2 AVG LIFE 40.174800 FIT INDEX 0.001122 VARIANCE 0.134188

FITTED RANGE AGE 0.5 TO 44.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
78.5					0.20739523		0.00365088	195.40	0.90241454
79.5					0.21282223		0.00289371	197.89	0.90502782
80.5					0.21831982		0.00227786	200.37	0.90760706
81.5					0.22388798		0.00178056	202.86	0.91016935
82.5					0.22952673		0.00138191	205.35	0.91273701
83.5					0.23523607		0.00106473	207.84	0.91533988
84.5					0.24101599		0.00081427	210.33	0.91801842
85.5					0.24686649		0.00061801	212.82	0.92082843
86.5					0.25278757		0.00046545	215.31	0.92384783
87.5					0.25877924		0.00034779	217.80	0.92718664
88.5					0.26484149		0.00025779	220.29	0.93100193
89.5					0.27097432		0.00018951	222.78	0.93552008
90.5					0.27717774		0.00013816	225.27	0.94107048
91.5					0.28345174		0.00009987	227.75	0.94813670
92.5					0.28979632		0.00007156	230.24	0.95743509
93.5					0.29621149		0.00005082	232.73	0.97003623
94.5							0.00003577	235.22	0.98755439

EQUIVALENT H CURVE IS 2.68

EQUIVALENT L CURVE IS 3.00

EQUIVALENT R CURVE IS 2.00

EQUIVALENT S CURVE IS 1.50

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = -0.19374748E-02 0.72665925E-03 (X)

$$\text{QUADRATIC} \quad YEST(I) = 0.16217859E-02 - 0.14907401E-03\,(X) + 0.35291615E-04\,(X^2)$$

$$\text{CUBIC} \quad YEST(I) = 0.31590298E-02 - 0.77231088E-03\,(X) + 0.87338670E-04\,(X^2) - 0.11233044E-05\,(X^3)$$

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1985	1989	83.82	0.001123	347.78	1.66	1.00	-0.50	0.50
1986	1990	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1987	1991	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1988	1992	32.77	0.003417	318.86	2.01	1.50	0.00	1.00
1989	1993	33.50	0.003678	320.91	1.98	1.50	0.00	1.00
1990	1994	33.72	0.003593	327.69	1.92	1.50	0.00	1.00
1991	1995	34.79	0.003456	329.16	1.90	1.50	0.00	1.00
1992	1996	34.61	0.003389	322.16	1.97	1.50	0.00	1.00
1993	1997	56.65	0.001041	345.09	1.68	1.00	-0.50	0.50
1994	1998	68.17	0.000790	345.93	1.67	1.00	-0.50	0.50
1995	1999	77.80	0.000674	336.11	1.81	1.50	0.00	1.00
1996	2000	78.59	0.000877	330.19	1.90	1.50	0.00	1.00
1997	2001	111.88	0.000771	338.31	1.80	1.50	0.00	1.00
1998	2002	33.88	0.004629	296.60	2.33	2.00	0.50	1.50
1999	2003	28.19	0.006011	292.61	2.38	2.00	1.00	1.50
2000	2004	28.54	0.005516	303.09	2.26	2.00	0.50	1.50
2001	2005	30.33	0.004604	308.30	2.19	2.00	0.50	1.50
2002	2006	31.74	0.003979	313.46	2.09	2.00	0.50	1.00
2003	2007	45.78	0.002192	361.54	1.47	1.00	-0.50	0.50
2004	2008	173.84	0.001110	229.24	0.25	0.00	SC	0.50
2005	2009	100.79	0.000809	369.58	1.40	0.50	SC	0.50
2006	2010	77.91	0.001040	353.61	1.59	1.00	-0.50	0.50
2007	2011	85.71	0.000855	348.29	1.65	1.00	-0.50	0.50

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	85.71	0.000855	348.29	1.65	1.00	-0.50	0.50
2006	2011	90.66	0.000829	359.05	1.52	1.00	-0.50	0.50
2005	2011	93.35	0.000744	355.13	1.57	1.00	-0.50	0.50
2004	2011	96.62	0.000843	390.72	1.17	0.50	SC	0.50
2003	2011	61.86	0.001086	377.46	1.30	0.50	SC	0.50
2002	2011	47.81	0.001581	344.10	1.71	1.00	-0.50	0.50
2001	2011	48.54	0.001492	340.97	1.75	1.50	0.00	0.50
2000	2011	48.91	0.001446	338.40	1.78	1.50	0.00	1.00
1999	2011	49.39	0.001393	337.11	1.80	1.50	0.00	1.00
1998	2011	49.79	0.001346	334.43	1.82	1.50	0.00	1.00
1997	2011	50.09	0.001312	334.38	1.83	1.50	0.00	1.00
1996	2011	49.78	0.001274	332.47	1.86	1.50	0.00	1.00
1995	2011	49.88	0.001239	333.79	1.84	1.50	0.00	1.00
1994	2011	50.12	0.001229	336.19	1.81	1.50	0.00	1.00
1993	2011	50.21	0.001211	337.57	1.80	1.50	0.00	1.00
1992	2011	48.89	0.001241	334.39	1.82	1.50	0.00	1.00
1991	2011	49.03	0.001217	335.52	1.82	1.50	0.00	1.00
1990	2011	49.11	0.001202	334.94	1.82	1.50	0.00	1.00
1989	2011	49.19	0.001188	334.42	1.82	1.50	0.00	1.00
1988	2011	49.25	0.001178	336.04	1.82	1.50	0.00	1.00
1987	2011	49.31	0.001168	335.66	1.82	1.50	0.00	1.00
1986	2011	49.35	0.001162	335.36	1.82	1.50	0.00	1.00
1985	2011	49.33	0.001155	335.52	1.82	1.50	0.00	1.00

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1987	1991	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1988	1992	27.29	0.003363	210.67	3.40	3.00	2.00	3.00
1989	1993	28.66	0.003691	225.06	3.00	3.00	2.00	2.50
1990	1994	29.49	0.003618	239.09	2.70	3.00	1.50	2.00
1991	1995	30.83	0.003488	248.12	2.55	2.00	1.00	2.00
1992	1996	29.36	0.003382	226.49	2.91	3.00	1.50	2.50
1993	1997	41.34	0.001034	235.83	2.65	3.00	1.50	2.00
1994	1998	43.05	0.000761	224.15	2.90	3.00	1.50	2.50
1995	1999	47.03	0.000651	217.95	3.14	3.00	2.00	2.50
1996	2000	46.45	0.000854	214.19	3.32	3.00	2.00	3.00
1997	2001	64.50	0.000778	227.11	2.99	3.00	1.50	2.50
1998	2002	28.99	0.004497	201.77	3.64	4.00	3.00	3.00
1999	2003	25.83	0.005819	203.28	3.42	3.00	2.00	3.00
2000	2004	25.65	0.005267	208.56	3.05	3.00	2.00	2.50
2001	2005	26.71	0.004359	211.56	2.94	3.00	1.50	2.50
2002	2006	27.62	0.003786	219.04	2.73	3.00	1.50	2.00
2003	2007	36.30	0.002178	243.83	2.25	2.00	0.50	1.50
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	73.08	0.000818	257.94	2.23	2.00	0.50	1.50
2006	2010	52.69	0.001034	230.60	2.66	3.00	1.50	2.00
2007	2011	54.08	0.000839	222.82	2.83	3.00	1.50	2.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	54.08	0.000839	222.82	2.83	3.00	1.50	2.00
2006	2011	58.37	0.000827	232.12	2.63	3.00	1.00	2.00
2005	2011	59.54	0.000741	230.93	2.69	3.00	1.50	2.00
2004	2011	54.70	0.000833	231.25	2.50	2.00	1.00	2.00
2003	2011	45.35	0.001072	243.65	2.22	2.00	0.50	1.50
2002	2011	38.65	0.001543	236.76	2.44	2.00	1.00	1.50
2001	2011	39.17	0.001452	233.62	2.51	2.00	1.00	2.00
2000	2011	39.47	0.001407	234.35	2.57	3.00	1.00	2.00
1999	2011	39.78	0.001354	232.51	2.61	3.00	1.00	2.00
1998	2011	40.03	0.001307	231.06	2.64	3.00	1.00	2.00
1997	2011	40.24	0.001274	232.35	2.67	3.00	1.50	2.00
1996	2011	39.96	0.001229	228.98	2.72	3.00	1.50	2.00
1995	2011	40.10	0.001197	230.69	2.71	3.00	1.50	2.00
1994	2011	40.05	0.001186	230.99	2.67	3.00	1.50	2.00
1993	2011	40.21	0.001172	232.55	2.66	3.00	1.50	2.00
1992	2011	39.83	0.001206	234.77	2.66	3.00	1.50	2.00
1991	2011	39.93	0.001183	234.13	2.67	3.00	1.50	2.00
1990	2011	39.99	0.001168	233.79	2.67	3.00	1.50	2.00
1989	2011	40.04	0.001154	233.49	2.68	3.00	1.50	2.00
1988	2011	40.08	0.001143	233.28	2.68	3.00	1.50	2.00
1987	2011	40.11	0.001133	233.09	2.68	3.00	1.50	2.00
1986	2011	40.13	0.001127	232.97	2.69	3.00	1.50	2.00
1985	2011	40.17	0.001122	235.22	2.68	3.00	1.50	2.00

PGS - 2011 CASE

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1987	1991	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	35.98	0.001024	173.72	3.76	4.00	3.00	3.00
1994	1998	38.98	0.000761	178.29	3.70	4.00	3.00	3.00
1995	1999	42.04	0.000651	177.21	4.12	4.00	3.00	4.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	58.75	0.001135	186.40	2.78	3.00	1.50	2.00
2005	2009	49.49	0.000802	168.72	3.73	4.00	3.00	3.00
2006	2010	44.90	0.001005	172.59	3.62	4.00	3.00	3.00
2007	2011	47.61	0.000825	175.39	3.72	4.00	3.00	3.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38500 Meas & Reg Station Eqp Ind

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	47.61	0.000825	175.39	3.72	4.00	3.00	3.00
2006	2011	47.68	0.000800	170.92	3.73	4.00	3.00	3.00
2005	2011	48.55	0.000720	171.97	3.81	4.00	3.00	3.00
2004	2011	47.65	0.000831	183.64	3.15	3.00	2.00	2.50
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 385.00 - Meas & Reg Station Eqp Ind
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	43,836	(825)	(2)	0	0	(825)	(2)
2009	43,640	(160)	(0)	0	0	(160)	(0)
2008	51,692	0	0	0	0	0	0
2007	0	0	0	0	0	0	0
2006	31,947	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2004	111,126	(1,579)	(1)	0	0	(1,579)	(1)
2003	290,162	(14,096)	(5)	0	0	(14,096)	(5)
2002	233,528	0	0	0	0	0	0
2001	3,314	0	0	0	0	0	0
2000	7,066	0	0	0	0	0	0
1999	1,472	(1,122)	(76)	0	0	(1,122)	(76)
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	36,253	0	0	0	0	0	0
1995	35,099	(410)	(1)	0	0	(410)	(1)
1994	36,092	0	0	0	0	0	0
1993	17,719	0	0	0	0	0	0
1992	39,689	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0
1985	6,677	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	989,311	**(18,192)**	**(2)**	**0**	**0**	**(18,192)**	**(2)**

Peoples Gas System
Net Salvage Analysis
Account - 385.00 - Meas & Reg Station Eqp Ind
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	171,115	(985)	(1)	0	0	(985)	(1)
2009	127,280	(160)	(0)	0	0	(160)	(0)
2008	194,765	(1,579)	(1)	0	0	(1,579)	(1)
2007	433,234	(15,675)	(4)	0	0	(15,675)	(4)
2006	666,762	(15,675)	(2)	0	0	(15,675)	(2)
2005	638,129	(15,675)	(2)	0	0	(15,675)	(2)
2004	645,195	(15,675)	(2)	0	0	(15,675)	(2)
2003	535,541	(15,218)	(3)	0	0	(15,218)	(3)
2002	245,379	(1,122)	(0)	0	0	(1,122)	(0)
2001	11,851	(1,122)	(9)	0	0	(1,122)	(9)
2000	44,791	(1,122)	(3)	0	0	(1,122)	(3)
1999	72,824	(1,532)	(2)	0	0	(1,532)	(2)
1998	107,445	(410)	(0)	0	0	(410)	(0)
1997	125,163	(410)	(0)	0	0	(410)	(0)
1996	164,852	(410)	(0)	0	0	(410)	(0)
1995	128,599	(410)	(0)	0	0	(410)	(0)
1994	93,500	0	0	0	0	0	0
1993	57,408	0	0	0	0	0	0
1992	39,689	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1989	6,677	0	0	0	0	0	0
1988	6,677	0	0	0	0	0	0
1987	6,677	0	0	0	0	0	0
1986	6,677	0	0	0	0	0	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700. Other Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 16.0 YRS CURVE: IOWA S2 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	90000.	0.031250	2812.	87188.
2010	1.50	505218.	0.093711	47345.	457873.
2009	2.50	669772.	0.155875	104401.	565371.
2008	3.50	117526.	0.217225	25530.	91996.
2007	4.50	324993.	0.277037	90035.	234958.
2006	5.50	355401.	0.334601	118917.	236484.
2005	6.50	145282.	0.389321	56561.	88721.
2004	7.50	203644.	0.440768	89760.	113884.
2003	8.50	192475.	0.488697	94062.	98413.
2002	9.50	79748.	0.533042	42509.	37239.
2001	10.50	97049.	0.573898	55696.	41353.
2000	11.50	157867.	0.611431	96525.	61342.
1999	12.50	97391.	0.645864	62901.	34490.
1998	13.50	51150.	0.677456	34652.	16498.
1997	14.50	117277.	0.706485	82854.	34423.
1996	15.50	56392.	0.733206	41347.	15045.
1995	16.50	50246.	0.757870	38080.	12166.
1994	17.50	69978.	0.780697	54632.	15346.
1993	18.50	69244.	0.801899	55527.	13717.
1992	19.50	38947.	0.821645	32001.	6946.
1991	20.50	49471.	0.840105	41561.	7910.
1990	21.50	23363.	0.857424	20032.	3331.
1989	22.50	4039.	0.873711	3529.	510.
1988	23.50	10560.	0.889030	9388.	1172.
1987	24.50	13736.	0.903496	12410.	1326.
1986	25.50	24342.	0.917182	22326.	2016.
1985	26.50	18440.	0.930078	17151.	1289.
1984	27.50	3815.	0.942062	3594.	221.
1983	28.50	1839.	0.952891	1752.	87.
1982	29.50	4670.	0.962684	4496.	174.
1981	30.50	8106.	0.968750	7853.	253.
1980	31.50	357.	1.000000	357.	0.
1979	32.50	3379.	1.000000	3379.	0.
1978	33.50	592.	1.000000	592.	0.
1977	34.50	17806.	1.000000	17806.	0.
1976	35.50	0.	1.000000	0.	0.
1975	36.50	6193.	1.000000	6193.	0.
1974	37.50	0.	1.000000	0.	0.
1973	38.50	199.	1.000000	199.	0.
1972	39.50	160.	1.000000	160.	0.
1971	40.50	0.	1.000000	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700. Other Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 16.0 YRS CURVE: IOWA S2 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	0.	1.000000	0.	0.
1969	42.50	0.	1.000000	0.	0.
1968	43.50	0.	1.000000	0.	0.
1967	44.50	243.	1.000000	243.	0.
SUBTOTAL :			0.380115	1399168.	2281742.
NET SALVAGE: 0.0%				0.	0.
TOTAL :		3680910.	0.380115	1399168.	2281742.

WEIGHTED AGE: 7.5 YEARS
REMAINING LIFE: 9.9 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700. Other Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 16.0 YRS CURVE: IOWA S2 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	90000.	0.062500	5625.
2010	1.50 - 2.50	505218.	0.062500	31576.
2009	2.50 - 3.50	669772.	0.062500	41861.
2008	3.50 - 4.50	117526.	0.062500	7345.
2007	4.50 - 5.50	324993.	0.062500	20312.
2006	5.50 - 6.50	355401.	0.062500	22213.
2005	6.50 - 7.50	145282.	0.062500	9080.
2004	7.50 - 8.50	203644.	0.062500	12728.
2003	8.50 - 9.50	192475.	0.062500	12030.
2002	9.50 - 10.50	79748.	0.062500	4984.
2001	10.50 - 11.50	97049.	0.062500	6066.
2000	11.50 - 12.50	157867.	0.062500	9867.
1999	12.50 - 13.50	97391.	0.062500	6087.
1998	13.50 - 14.50	51150.	0.062500	3197.
1997	14.50 - 15.50	117277.	0.062500	7330.
1996	15.50 - 16.50	56392.	0.062500	3524.
1995	16.50 - 17.50	50246.	0.062500	3140.
1994	17.50 - 18.50	69978.	0.062500	4374.
1993	18.50 - 19.50	69244.	0.062500	4328.
1992	19.50 - 20.50	38947.	0.062500	2434.
1991	20.50 - 21.50	49471.	0.062500	3092.
1990	21.50 - 22.50	23363.	0.062500	1460.
1989	22.50 - 23.50	4039.	0.062500	252.
1988	23.50 - 24.50	10560.	0.062500	660.
1987	24.50 - 25.50	13736.	0.062500	858.
1986	25.50 - 26.50	24342.	0.062500	1521.
1985	26.50 - 27.50	18440.	0.062500	1152.
1984	27.50 - 28.50	3815.	0.062500	238.
1983	28.50 - 29.50	1839.	0.062500	115.
1982	29.50 - 30.50	4670.	0.062500	292.
1981	30.50 - 31.50	8106.	0.062500	507.
1980	31.50 - 32.50	357.	0.062500	22.
1979	32.50 - 33.50	3379.	0.062500	211.
1978	33.50 - 34.50	592.	0.062500	37.
1977	34.50 - 35.50	17806.	0.062500	1113.
1976	35.50 - 36.50	0.	0.062500	0.
1975	36.50 - 37.50	6193.	0.062500	387.
1974	37.50 - 38.50	0.	0.062500	0.
1973	38.50 - 39.50	199.	0.062500	12.
1972	39.50 - 40.50	160.	0.062500	10.
1971	40.50 - 41.50	0.	0.062500	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700. Other Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 16.0 YRS CURVE: IOWA S2 O.C. SALVAGE %: 0.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
	1970	41.50 - 42.50	0.	0.062500	0.
	1969	42.50 - 43.50	0.	0.062500	0.
	1968	43.50 - 44.50	0.	0.062500	0.
	1967	44.50 - 45.50	243.	0.062500	15.
SUBTOTAL :			3680910.	0.062500	230057.
NET SALVAGE:	0.0 %				0.
TOTAL :			3680910.	0.062500	230057.

MONTHLY RATE: 0.005208

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700. Other Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 16.0 YRS CURVE: IOWA S2

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	90000.	15.5	1395000.
2010	1.50	505218.	14.5	7325974.
2009	2.50	669772.	13.5	9045936.
2008	3.50	117526.	12.5	1471942.
2007	4.50	324993.	11.6	3759326.
2006	5.50	355401.	10.6	3783737.
2005	6.50	145282.	9.8	1419531.
2004	7.50	203644.	8.9	1822147.
2003	8.50	192475.	8.2	1574610.
2002	9.50	79748.	7.5	595824.
2001	10.50	97049.	6.8	661644.
2000	11.50	157867.	6.2	981474.
1999	12.50	97391.	5.7	551834.
1998	13.50	51150.	5.2	263970.
1997	14.50	117277.	4.7	550761.
1996	15.50	56392.	4.3	240721.
1995	16.50	50246.	3.9	194657.
1994	17.50	69978.	3.5	245542.
1993	18.50	69244.	3.2	219477.
1992	19.50	38947.	2.9	111143.
1991	20.50	49471.	2.6	126563.
1990	21.50	23363.	2.3	53296.
1989	22.50	4039.	2.0	8161.
1988	23.50	10560.	1.8	18750.
1987	24.50	13736.	1.5	21209.
1986	25.50	24342.	1.3	32255.
1985	26.50	18440.	1.1	20630.
1984	27.50	3815.	0.9	3537.
1983	28.50	1839.	0.8	1386.
1982	29.50	4670.	0.6	2788.
1981	30.50	8106.	0.5	4053.
1980	31.50	357.	0.0	0.
1979	32.50	3379.	0.0	0.
1978	33.50	592.	0.0	0.
1977	34.50	17806.	0.0	0.
1976	35.50	0.	0.0	0.
1975	36.50	6193.	0.0	0.
1974	37.50	0.	0.0	0.
1973	38.50	199.	0.0	0.
1972	39.50	160.	0.0	0.
1971	40.50	0.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700. Other Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 16.0 YRS CURVE: IOWA S2

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	0.	0.0	0.
1969	42.50	0.	0.0	0.
1968	43.50	0.	0.0	0.
1967	44.50	243.	0.0	0.
TOTAL:		3680910.	9.9	36507877.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700. Other Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 16.0 YEARS CURVE: IOWA S2

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0313	100.00000	0.00000	50.00000	0.062500	3.12500	3.12500	0.031250
1.50	0.0938	99.99588	0.00412	99.99794	0.062500	6.24987	9.37075	0.093711
2.50	0.1563	99.95750	0.03837	99.97669	0.062500	6.24854	15.58092	0.155875
3.50	0.2188	99.81625	0.14125	99.88688	0.062500	6.24293	21.68259	0.217225
4.50	0.2813	99.46050	0.35575	99.63838	0.062500	6.22740	27.55425	0.277037
5.50	0.3438	98.75575	0.70475	99.10813	0.062500	6.19426	33.04375	0.334601
6.50	0.4063	97.55887	1.19688	98.15731	0.062500	6.13483	37.98170	0.389321
7.50	0.4688	95.73275	1.82612	96.64581	0.062500	6.04036	42.19595	0.440768
8.50	0.5313	93.16162	2.57113	94.44719	0.062500	5.90295	45.52777	0.488697
9.50	0.5938	89.76675	3.39487	91.46419	0.062500	5.71651	47.84941	0.533042
10.50	0.6563	85.51875	4.24800	87.64275	0.062500	5.47767	49.07908	0.573898
11.50	0.7188	80.43288	5.08587	82.97581	0.062500	5.18599	49.17919	0.611431
12.50	0.7813	74.57500	5.85788	77.50394	0.062500	4.84400	48.16531	0.645864
13.50	0.8438	68.06000	6.51500	71.31750	0.062500	4.45734	46.10765	0.677456
14.50	0.9063	61.04563	7.01437	64.55281	0.062500	4.03455	43.12783	0.706485
15.50	0.9688	53.71725	7.32837	57.38144	0.062500	3.58634	39.38580	0.733206
16.50	1.0313	46.28275	7.43450	50.00000	0.062500	3.12500	35.07630	0.757870
17.50	1.0938	38.95437	7.32837	42.61856	0.062500	2.66366	30.41158	0.780697
18.50	1.1563	31.94000	7.01437	35.44719	0.062500	2.21545	25.61266	0.801899
19.50	1.2188	25.42500	6.51500	28.68250	0.062500	1.79266	20.89031	0.821645
20.50	1.2813	19.56712	5.85788	22.49606	0.062500	1.40600	16.43844	0.840105
21.50	1.3438	14.48125	5.08587	17.02419	0.062500	1.06401	12.41658	0.857424
22.50	1.4063	10.23325	4.24800	12.35725	0.062500	0.77233	8.94091	0.873711
23.50	1.4688	6.83838	3.39487	8.53581	0.062500	0.53349	6.07952	0.889030
24.50	1.5313	4.26725	2.57113	5.55281	0.062500	0.34705	3.85545	0.903496
25.50	1.5938	2.44112	1.82612	3.35419	0.062500	0.20964	2.23896	0.917182
26.50	1.6563	1.24425	1.19688	1.84269	0.062500	0.11517	1.15725	0.930078
27.50	1.7188	0.53950	0.70475	0.89188	0.062500	0.05574	0.50824	0.942062
28.50	1.7813	0.18375	0.35575	0.36163	0.062500	0.02260	0.17509	0.952891
29.50	1.8438	0.04250	0.14125	0.11313	0.062500	0.00707	0.04091	0.962684
30.50	1.9063	0.00412	0.03838	0.02331	0.062500	0.00146	0.00400	0.968750
31.50	1.9688	0.00000	0.00412	0.00206	0.062500	0.00013	0.00000	1.000000
		1600.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	90000.	0.	0.	0.	0.	0.	0.	0.	0
2010	505218.	0.	0.	0.	0.	0.	0.	0.	0
2009	669772.	0.	0.	0.	0.	0.	0.	0.	0
2008	117526.	0.	0.	0.	0.	0.	0.	0.	0
2007	324993.	0.	0.	0.	2139.	0.	0.	0.	0
2006	355401.	0.	4086.	0.	0.	9637.	0.	0.	0
2005	145282.	0.	0.	0.	0.	0.	0.	0.	0
2004	203644.	0.	0.	0.	0.	2922.	3891.	0.	0
2003	192475.	0.	0.	0.	0.	3914.	10124.	0.	0
2002	79748.	0.	4748.	0.	2789.	0.	0.	0.	0
2001	97049.	0.	0.	3407.	0.	4855.	0.	0.	0
2000	157867.	1100.	13471.	0.	0.	0.	0.	0.	0
1999	97391.	2200.	0.	0.	0.	0.	0.	0.	0
1998	51150.	0.	0.	0.	0.	0.	6090.	0.	0
1997	117277.	0.	0.	0.	0.	0.	6558.	703.	5258
1996	56392.	0.	4019.	0.	0.	0.	0.	0.	0
1995	50246.	0.	0.	0.	0.	0.	1182.	0.	1221
1994	69978.	0.	0.	0.	0.	0.	0.	751.	2973
1993	69244.	0.	0.	0.	0.	0.	5519.	0.	7550
1992	38947.	1100.	0.	0.	0.	0.	0.	585.	1144
1991	49471.	0.	0.	0.	1333.	0.	3395.	643.	13179
1990	23363.	2201.	0.	0.	622.	0.	727.	0.	1748
1989	4039.	0.	0.	0.	0.	0.	732.	605.	2256
1988	10560.	0.	0.	0.	0.	0.	0.	616.	1343
1987	13736.	0.	0.	0.	1080.	0.	0.	1110.	1476
1986	24342.	0.	0.	0.	0.	0.	2438.	2315.	0
1985	18440.	1100.	0.	0.	2755.	0.	1080.	0.	3284
1984	3815.	0.	0.	0.	0.	0.	0.	0.	1082
1983	1839.	0.	0.	0.	0.	495.	0.	0.	3682
1982	4670.	0.	0.	0.	0.	0.	0.	1467.	0
1981	8106.	0.	0.	0.	0.	0.	0.	0.	3984
1980	357.	0.	0.	0.	0.	0.	0.	0.	0
1979	3379.	0.	0.	0.	295.	0.	0.	0.	3119
1978	592.	0.	0.	0.	0.	0.	192.	329.	1899
1977	17806.	2196.	0.	0.	0.	0.	0.	0.	3692
1976	0.	0.	0.	0.	0.	0.	0.	215.	0
1975	6193.	0.	0.	0.	0.	0.	0.	0.	1971
1974	0.	0.	0.	0.	0.	0.	0.	0.	0
1973	199.	0.	0.	0.	0.	0.	0.	0.	0
1972	160.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	0.	0.	0.	0.	0.	0.	0.	0.	292
1968	0.	0.	0.	0.	0.	0.	0.	0.	0
1967	243.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	3680910.	9897.	26324.	3407.	11013.	21823.	41928.	9339.	61153

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	90000.	0.	0.	0.	0.	0.	0.	0.	0
2010	505218.	0.	0.	0.	0.	0.	0.	0.	0
2009	669772.	0.	0.	0.	0.	0.	0.	0.	0
2008	117526.	0.	0.	0.	0.	0.	0.	0.	0
2007	324993.	0.	0.	0.	0.	0.	0.	0.	0
2006	355401.	0.	0.	0.	0.	0.	0.	0.	0
2005	145282.	0.	0.	0.	0.	0.	0.	0.	0
2004	203644.	0.	0.	0.	0.	0.	0.	0.	0
2003	192475.	0.	0.	0.	0.	0.	0.	0.	0
2002	79748.	0.	0.	0.	0.	0.	0.	0.	0
2001	97049.	879.	953.	0.	0.	0.	0.	0.	0
2000	157867.	0.	1089.	0.	1853.	0.	0.	0.	0
1999	97391.	0.	0.	0.	0.	0.	0.	0.	0
1998	51150.	0.	0.	0.	0.	0.	0.	0.	0
1997	117277.	0.	0.	0.	0.	3195.	0.	670.	0
1996	56392.	0.	0.	0.	0.	2795.	0.	0.	0
1995	50246.	638.	0.	0.	1615.	1396.	1279.	0.	0
1994	69978.	0.	0.	1725.	0.	5433.	0.	0.	2127
1993	69244.	684.	0.	5098.	124.	3829.	3267.	0.	0
1992	38947.	0.	0.	1406.	16380.	1243.	749.	0.	0
1991	49471.	0.	0.	0.	1794.	637.	28519.	0.	0
1990	23363.	0.	2425.	0.	5675.	0.	3822.	0.	0
1989	4039.	2032.	0.	1943.	6878.	23102.	0.	0.	605
1988	10560.	0.	0.	7173.	18661.	5502.	1107.	0.	553
1987	13736.	0.	2167.	3411.	9852.	721.	0.	0.	0
1986	24342.	0.	295.	938.	16319.	3158.	1016.	0.	4019
1985	18440.	0.	2045.	8550.	8221.	4246.	4670.	0.	0
1984	3815.	0.	0.	3774.	8008.	1002.	0.	0.	0
1983	1839.	0.	0.	2048.	3397.	1048.	0.	1014.	0
1982	4670.	0.	1986.	0.	7094.	3717.	2865.	431.	775
1981	8106.	0.	0.	341.	6481.	1598.	452.	823.	425
1980	357.	0.	0.	709.	2816.	990.	9924.	0.	0
1979	3379.	0.	0.	279.	1684.	287.	813.	677.	0
1978	592.	0.	0.	1040.	777.	262.	1512.	0.	0
1977	17806.	526.	504.	546.	673.	1243.	2922.	0.	0
1976	0.	0.	915.	0.	1599.	0.	0.	216.	0
1975	6193.	0.	0.	1647.	745.	0.	238.	740.	2762
1974	0.	0.	0.	1157.	0.	0.	0.	0.	0
1973	199.	0.	0.	0.	0.	0.	0.	493.	0
1972	160.	0.	0.	0.	410.	0.	0.	0.	2065

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	324.	0.	0.	0.	0.	0
1969	0.	0.	0.	0.	0.	0.	0.	0.	0
1968	0.	0.	0.	1794.	0.	0.	0.	0.	0
1967	243.	0.	0.	1011.	0.	0.	0.	0.	0
TOTAL	3680910.	4759.	12379.	44914.	121066.	65404.	63155.	5064.	13331

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	90000.	0.	0.	0.	0.	0.	0.	0.	0
2010	505218.	0.	0.	0.	0.	0.	0.	0.	0
2009	669772.	0.	0.	0.	0.	0.	0.	0.	0
2008	117526.	0.	0.	0.	0.	0.	0.	0.	0
2007	324993.	0.	0.	0.	0.	0.	0.	0.	0
2006	355401.	0.	0.	0.	0.	0.	0.	0.	0
2005	145282.	0.	0.	0.	0.	0.	0.	0.	0
2004	203644.	0.	0.	0.	0.	0.	0.	0.	0
2003	192475.	0.	0.	0.	0.	0.	0.	0.	0
2002	79748.	0.	0.	0.	0.	0.	0.	0.	0
2001	97049.	0.	0.	0.	0.	0.	0.	0.	0
2000	157867.	0.	0.	0.	0.	0.	0.	0.	0
1999	97391.	0.	0.	0.	0.	0.	0.	0.	0
1998	51150.	0.	0.	0.	0.	0.	0.	0.	0
1997	117277.	0.	0.	0.	0.	0.	0.	0.	0
1996	56392.	0.	0.	0.	0.	0.	0.	0.	0
1995	50246.	0.	0.	0.	0.	0.	0.	0.	0
1994	69978.	0.	0.	0.	0.	0.	0.	0.	0
1993	69244.	0.	0.	0.	0.	0.	0.	0.	0
1992	38947.	0.	867.	0.	0.	0.	0.	0.	0
1991	49471.	0.	1234.	0.	0.	0.	0.	0.	0
1990	23363.	0.	581.	603.	0.	0.	0.	0.	0
1989	4039.	605.	552.	0.	0.	0.	552.	0.	0
1988	10560.	1965.	606.	4572.	1237.	0.	0.	0.	0
1987	13736.	0.	0.	556.	1579.	0.	1068.	2284.	0
1986	24342.	28224.	0.	2709.	1072.	539.	0.	0.	0
1985	18440.	0.	0.	1606.	1614.	3403.	0.	0.	0
1984	3815.	4161.	2708.	576.	2333.	1934.	0.	0.	1150
1983	1839.	1196.	756.	400.	1754.	2963.	1356.	0.	0
1982	4670.	5408.	0.	0.	1049.	1146.	347.	3828.	0
1981	8106.	704.	3331.	2318.	3126.	1355.	1369.	0.	0
1980	357.	0.	2506.	1195.	493.	3827.	475.	0.	338
1979	3379.	459.	1541.	279.	3283.	1884.	242.	0.	977
1978	592.	872.	520.	0.	7434.	5869.	449.	520.	593
1977	17806.	333.	678.	0.	2354.	2289.	1918.	635.	2693
1976	0.	248.	1077.	955.	385.	518.	5787.	250.	0
1975	6193.	23521.	7783.	718.	2385.	15118.	3244.	210.	0
1974	0.	1971.	0.	1148.	1972.	585.	0.	261.	147
1973	199.	2602.	2900.	0.	563.	1790.	1180.	0.	606
1972	160.	436.	497.	0.	6038.	891.	720.	215.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
1971	0.	0.	0.	0.	1490.	1338.	377.	0.	0
1970	0.	0.	0.	0.	731.	220.	3012.	5008.	0
1969	0.	0.	182.	0.	274.	830.	0.	368.	315
1968	0.	277.	392.	0.	0.	71.	467.	0.	0
1967	243.	0.	0.	0.	0.	460.	0.	88.	0
TOTAL	3680910.	72982.	28711.	17635.	41216.	47030.	22563.	13667.	6819

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
2011	90000.	0.	0.	0.	0.	0.
2010	505218.	0.	0.	0.	0.	0.
2009	669772.	0.	0.	0.	0.	0.
2008	117526.	0.	0.	0.	0.	0.
2007	324993.	0.	0.	0.	0.	0.
2006	355401.	0.	0.	0.	0.	0.
2005	145282.	0.	0.	0.	0.	0.
2004	203644.	0.	0.	0.	0.	0.
2003	192475.	0.	0.	0.	0.	0.
2002	79748.	0.	0.	0.	0.	0.
2001	97049.	0.	0.	0.	0.	0.
2000	157867.	0.	0.	0.	0.	0.
1999	97391.	0.	0.	0.	0.	0.
1998	51150.	0.	0.	0.	0.	0.
1997	117277.	0.	0.	0.	0.	0.
1996	56392.	0.	0.	0.	0.	0.
1995	50246.	0.	0.	0.	0.	0.
1994	69978.	0.	0.	0.	0.	0.
1993	69244.	0.	0.	0.	0.	0.
1992	38947.	0.	0.	0.	0.	0.
1991	49471.	0.	0.	0.	0.	0.
1990	23363.	0.	0.	0.	0.	0.
1989	4039.	0.	0.	0.	0.	0.
1988	10560.	0.	0.	0.	0.	0.
1987	13736.	573.	0.	0.	0.	0.
1986	24342.	507.	0.	0.	0.	0.
1985	18440.	4128.	510.	0.	0.	0.
1984	3815.	0.	568.	0.	0.	0.
1983	1839.	0.	193.	0.	0.	0.
1982	4670.	392.	0.	0.	196.	0.
1981	8106.	0.	0.	908.	0.	478.
1980	357.	977.	320.	1556.	668.	334.
1979	3379.	299.	350.	0.	0.	0.
1978	592.	1810.	296.	668.	0.	668.
1977	17806.	1782.	347.	0.	0.	0.
1976	0.	530.	155.	163.	0.	0.
1975	6193.	490.	858.	605.	566.	1426.
1974	0.	536.	7042.	3079.	334.	1211.
1973	199.	613.	0.	0.	1029.	1245.
1972	160.	226.	101.	522.	474.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS				
		1987	1986	1985	1984	1983
1971	0.	0.	207.	0.	0.	0.
1970	0.	193.	0.	0.	193.	0.
1969	0.	0.	0.	140.	310.	0.
1968	0.	0.	109.	0.	0.	0.
1967	243.	0.	0.	0.	0.	0.
TOTAL	3680910.	13056.	11056.	7641.	3770.	5362.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	4149016.	3106.	0.00074861	0.99925139	1.00000000
0.5	4091281.	14298.	0.00349475	0.99650525	0.99925139
1.5	3607564.	19702.	0.00546130	0.99453870	0.99575926
2.5	2945575.	20552.	0.00697725	0.99302275	0.99032111
3.5	2827344.	13940.	0.00493042	0.99506958	0.98341140
4.5	2514713.	20173.	0.00802199	0.99197801	0.97856277
5.5	2182276.	18784.	0.00860753	0.99139247	0.97071275
6.5	2031223.	52875.	0.02603112	0.97396888	0.96235731
7.5	1845924.	51684.	0.02799899	0.97200101	0.93730608
8.5	1621208.	49122.	0.03029963	0.96970037	0.91106246
9.5	1505558.	61732.	0.04100274	0.95899726	0.88345760
10.5	1359582.	43784.	0.03220402	0.96779598	0.84723342
11.5	1161343.	43091.	0.03710446	0.96289554	0.81994910
12.5	1030542.	66448.	0.06447869	0.93552131	0.78952534
13.5	915655.	54470.	0.05948747	0.94051253	0.73861778
14.5	747018.	28102.	0.03761891	0.96238109	0.69467927
15.5	664326.	40886.	0.06154508	0.93845492	0.66854620
16.5	573194.	24605.	0.04292613	0.95707387	0.62740047
17.5	478611.	29792.	0.06224679	0.93775321	0.60046859
18.5	379575.	31316.	0.08250280	0.91749720	0.56309135
19.5	309312.	44789.	0.14480201	0.85519799	0.51663474
20.5	215052.	23179.	0.10778323	0.89221677	0.44182499
21.5	168510.	8254.	0.04898226	0.95101774	0.39420366
22.5	156217.	10938.	0.07001799	0.92998201	0.37489468
23.5	134719.	5658.	0.04199853	0.95800147	0.34864531
24.5	115325.	4550.	0.03945372	0.96054628	0.33400271
25.5	86433.	6479.	0.07495980	0.92504020	0.32082507
26.5	61514.	5455.	0.08867900	0.91132100	0.29677608
27.5	52244.	602.	0.01152285	0.98847715	0.27045828
28.5	49803.	2481.	0.04981628	0.95018372	0.26734183
29.5	42652.	0.	0.00000000	1.00000000	0.25402385
30.5	34546.	324.	0.00937880	0.99062120	0.25402385
31.5	33865.	0.	0.00000000	1.00000000	0.25164141
32.5	30486.	1794.	0.05884668	0.94115332	0.25164141
33.5	28100.	3207.	0.11412811	0.88587189	0.23683315
34.5	7088.	292.	0.04119639	0.95880361	0.20980383
35.5	6795.	0.	0.00000000	1.00000000	0.20116067
36.5	603.	0.	0.00000000	1.00000000	0.20116067
37.5	602.	0.	0.00000000	1.00000000	0.20116067
38.5	403.	0.	0.00000000	1.00000000	0.20116067

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 38700 Other Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	244.	0.	0.00000000	1.00000000	0.20116067
40.5	244.	0.	0.00000000	1.00000000	0.20116067
41.5	244.	0.	0.00000000	1.00000000	0.20116067
42.5	244.	0.	0.00000000	1.00000000	0.20116067
43.5	243.	0.	0.00000000	1.00000000	0.20116067
TOTAL		806464.			22.79573452

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38700 Other Equipment

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 21.719420 FIT INDEX 0.002112 VARIANCE 0.252805

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	4149016.	3106.	0.	0.00074861	0.00000000	1.00000000	1.00000000	0.00	0.00000000
0.5	4091281.	14298.	6305.	0.00349475	0.00154114	0.99925139	1.00000000	2.30	0.02302123
1.5	3607564.	19702.	17808.	0.00546130	0.00493622	0.99575926	0.99845886	6.91	0.06759052
2.5	2945575.	20552.	24540.	0.00697725	0.00833131	0.99032111	0.99353024	11.51	0.10912106
3.5	2827344.	13940.	33155.	0.00493042	0.01172639	0.98341140	0.98525284	16.11	0.14787167
4.5	2514713.	20173.	38026.	0.00802199	0.01512147	0.97856277	0.97369938	20.72	0.18407561
5.5	2182276.	18784.	40408.	0.00860753	0.01851655	0.97071275	0.95897562	25.32	0.21794341
6.5	2031223.	52875.	44507.	0.02603112	0.02191163	0.96235731	0.94121870	29.93	0.24966525
7.5	1845924.	51684.	46714.	0.02799899	0.02530671	0.93730608	0.92059506	34.53	0.27941333
8.5	1621208.	49122.	46532.	0.03029963	0.02870179	0.91106246	0.89729782	39.14	0.30734365
9.5	1505558.	61732.	48324.	0.04100274	0.03209688	0.88345760	0.87154377	43.74	0.33359772
10.5	1359582.	43784.	48254.	0.03220402	0.03549196	0.84723342	0.84356993	48.34	0.35830414
11.5	1161343.	43091.	45161.	0.03710446	0.03888704	0.81994910	0.81362999	52.95	0.38157989
12.5	1030542.	66448.	43574.	0.06447869	0.04228212	0.78952534	0.78199033	57.55	0.40353154
13.5	915655.	54470.	41825.	0.05948747	0.04567720	0.73861778	0.74892612	62.16	0.42425623
14.5	747018.	28102.	36658.	0.03761891	0.04907228	0.69467927	0.71471727	66.76	0.44384275
15.5	664326.	40886.	34855.	0.06154508	0.05246736	0.66854620	0.67964446	71.36	0.46237217
16.5	573194.	24605.	32020.	0.04292613	0.05586245	0.62740047	0.64398531	75.97	0.47991876
17.5	478611.	29792.	28361.	0.06224679	0.05925753	0.60046859	0.60801071	80.57	0.49655058
18.5	379575.	31316.	23781.	0.08250280	0.06265261	0.56309135	0.57198150	85.18	0.51233006
19.5	309312.	44789.	20429.	0.14480201	0.06604769	0.51663474	0.53614537	89.78	0.52731451
20.5	215052.	23179.	14934.	0.10778323	0.06944277	0.44182499	0.50073421	94.39	0.54155665
21.5	168510.	8254.	12274.	0.04898226	0.07283785	0.39420366	0.46596183	98.99	0.55510504
22.5	156217.	10938.	11909.	0.07001799	0.07623293	0.37489468	0.43202217	103.59	0.56800437
23.5	134719.	5658.	10727.	0.04199853	0.07962802	0.34864531	0.39908786	108.20	0.58029592
24.5	115325.	4550.	9575.	0.03945372	0.08302310	0.33400271	0.36730928	112.80	0.59201775
25.5	86433.	6479.	7469.	0.07495980	0.08641818	0.32082507	0.33681413	117.41	0.60320510
26.5	61514.	5455.	5525.	0.08867900	0.08981326	0.29677608	0.30770726	122.01	0.61389056
27.5	52244.	602.	4870.	0.01152285	0.09320834	0.27045828	0.28007107	126.61	0.62410432
28.5	49803.	2481.	4811.	0.04981628	0.09660342	0.26734183	0.25396611	131.22	0.63387436
29.5	42652.	0.	4265.	0.00000000	0.09999850	0.25402385	0.22943212	135.82	0.64322671
30.5	34546.	324.	3572.	0.00937880	0.10339359	0.25402385	0.20648925	140.43	0.65218548
31.5	33865.	0.	3616.	0.00000000	0.10678867	0.25164141	0.18513958	145.03	0.66077312

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38700 Other Equipment

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 21.719420 FIT INDEX 0.002112 VARIANCE 0.252805

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	30486.	1794.	3359.	0.05884668	0.11018375	0.25164141	0.16536877	149.64	0.66901057
33.5	28100.	3207.	3192.	0.11412811	0.11357883	0.23683315	0.14714782	154.24	0.67691735
34.5	7088.	292.	829.	0.04119639	0.11697391	0.20980383	0.13043495	158.84	0.68451161
35.5	6795.	0.	818.	0.00000000	0.12036899	0.20116067	0.11517746	163.45	0.69181037
36.5	603.	0.	75.	0.00000000	0.12376407	0.20116067	0.10131366	168.05	0.69882953
37.5	602.	0.	77.	0.00000000	0.12715916	0.20116067	0.08877467	172.66	0.70558399
38.5	403.	0.	53.	0.00000000	0.13055424	0.20116067	0.07748616	177.26	0.71208775
39.5	244.	0.	33.	0.00000000	0.13394932	0.20116067	0.06737001	181.86	0.71835397
40.5	244.	0.	34.	0.00000000	0.13734440	0.20116067	0.05834585	186.47	0.72439499
41.5	244.	0.	34.	0.00000000	0.14073948	0.20116067	0.05033237	191.07	0.73022253
42.5	244.	0.	35.	0.00000000	0.14413456	0.20116067	0.04324862	195.68	0.73584767
43.5	243.	0.	36.	0.00000000	0.14752964	0.20116067	0.03701500	200.28	0.74128095
TOTAL (EXCEPT AGE 0)		803358.	803358.						

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38700 Other Equipment

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 21.719420 FIT INDEX 0.002112 VARIANCE 0.252805

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
44.5					0.15092473		0.03155419	204.89	0.74653246
45.5					0.15431981		0.02679188	209.49	0.75161188
46.5					0.15771489		0.02265736	214.09	0.75652860
47.5					0.16110997		0.01908396	218.70	0.76129178
48.5					0.16450505		0.01600934	223.30	0.76591049
49.5					0.16790013		0.01337573	227.91	0.77039382
50.5					0.17129521		0.01112994	232.51	0.77475103
51.5					0.17469030		0.00922343	237.12	0.77899175
52.5					0.17808538		0.00761219	241.72	0.78312624
53.5					0.18148046		0.00625657	246.32	0.78716563
54.5					0.18487554		0.00512112	250.93	0.79112231
55.5					0.18827062		0.00417435	255.53	0.79501053
56.5					0.19166570		0.00338845	260.14	0.79884690
57.5					0.19506078		0.00273900	264.74	0.80265137
58.5					0.19845587		0.00220473	269.34	0.80644831
59.5					0.20185095		0.00176719	273.95	0.81026801
60.5					0.20524603		0.00141048	278.55	0.81414873
61.5					0.20864111		0.00112098	283.16	0.81813937
62.5					0.21203619		0.00088710	287.76	0.82230314
63.5					0.21543127		0.00069900	292.37	0.82672254
64.5					0.21882635		0.00054842	296.97	0.83150600
65.5					0.22222144		0.00042841	301.57	0.83679708
66.5					0.22561652		0.00033321	306.18	0.84278700
67.5					0.22901160		0.00025803	310.78	0.84973189
68.5					0.23240668		0.00019894	315.39	0.85797658
69.5					0.23580176		0.00015270	319.99	0.86798754
70.5					0.23919684		0.00011670	324.59	0.88039873
71.5					0.24259192		0.00008878	329.20	0.89607557
72.5					0.24598701		0.00006724	333.80	0.91620454
73.5					0.24938209		0.00005070	338.41	0.94241936
74.5							0.00003806	343.01	0.97697912

EQUIVALENT H CURVE IS 1.71

EQUIVALENT L CURVE IS 1.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS -0.50

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 38700 Other Equipment

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = -0.15639800E-03 0.33950814E-02 (X)

$$\text{QUADRATIC} \quad YEST(I) = -0.66469713E\text{-}02 \;\; 0.55135068E\text{-}02\,(X) \;\; -0.98599000E\text{-}04\,(X^2)$$

$$\text{CUBIC} \quad YEST(I) = 0.14478402E\text{-}02 \;\; 0.10263249E\text{-}02\,(X) \;\; 0.35963408E\text{-}03\,(X^2) \;\; -0.11383685E\text{-}04\,(X^3)$$

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38700 Other Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	24.57	0.002256	376.41	1.31	0.50	SC	0.50
1984	1988	25.89	0.002368	376.62	1.30	0.50	SC	0.50
1985	1989	23.82	0.004294	363.09	1.42	1.00	-0.50	0.50
1986	1990	20.90	0.004514	337.35	1.76	1.50	0.00	1.00
1987	1991	17.47	0.004731	317.67	2.02	1.50	0.00	1.00
1988	1992	16.02	0.005952	302.79	2.22	2.00	0.50	1.50
1989	1993	16.09	0.005567	307.71	2.10	2.00	0.50	1.50
1990	1994	15.76	0.005825	307.65	2.16	2.00	0.50	1.50
1991	1995	14.30	0.009482	297.14	2.24	2.00	0.50	1.50
1992	1996	15.64	0.009294	303.74	2.18	2.00	0.50	1.50
1993	1997	17.77	0.006882	306.74	2.12	2.00	0.50	1.50
1994	1998	16.44	0.007308	319.36	2.01	1.50	0.00	1.00
1995	1999	15.73	0.006846	346.51	1.65	1.00	-0.50	0.50
1996	2000	14.68	0.006621	343.94	1.63	1.00	-0.50	0.50
1997	2001	14.25	0.007199	333.41	1.78	1.50	0.00	1.00
1998	2002	14.31	0.007225	331.98	1.75	1.50	0.00	1.00
1999	2003	16.16	0.006155	331.10	1.86	1.50	0.00	1.00
2000	2004	16.35	0.005744	308.80	2.16	2.00	0.50	1.50
2001	2005	21.10	0.004389	310.50	2.15	2.00	0.50	1.50
2002	2006	23.88	0.002918	328.77	1.86	1.50	0.00	1.00
2003	2007	26.17	0.002847	353.51	1.54	1.00	-0.50	0.50
2004	2008	27.11	0.002719	355.92	1.55	1.00	-0.50	0.50
2005	2009	51.81	0.001259	414.02	0.92	0.00	SC	0.50
2006	2010	58.94	0.001212	450.49	0.60	0.00	SC	0.50
2007	2011	61.68	0.001144	386.67	1.20	0.50	SC	0.50

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38700 Other Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	61.68	0.001144	386.66	1.20	0.50	SC	0.50
2006	2011	52.50	0.001089	399.02	1.08	0.50	SC	0.50
2005	2011	48.89	0.001044	383.50	1.22	0.50	SC	0.50
2004	2011	34.68	0.001529	356.10	1.53	1.00	-0.50	0.50
2003	2011	35.45	0.001460	356.88	1.53	1.00	-0.50	0.50
2002	2011	34.97	0.001357	356.05	1.55	1.00	-0.50	0.50
2001	2011	31.22	0.001486	347.51	1.66	1.00	-0.50	0.50
2000	2011	26.12	0.001741	342.62	1.70	1.00	-0.50	0.50
1999	2011	25.08	0.001843	348.93	1.63	1.00	-0.50	0.50
1998	2011	24.13	0.001868	350.22	1.59	1.00	-0.50	0.50
1997	2011	24.40	0.001814	350.37	1.60	1.00	-0.50	0.50
1996	2011	24.42	0.001795	350.09	1.61	1.00	-0.50	0.50
1995	2011	23.02	0.002018	345.33	1.66	1.00	-0.50	0.50
1994	2011	22.72	0.002053	341.13	1.68	1.00	-0.50	0.50
1993	2011	22.74	0.001998	345.23	1.67	1.00	-0.50	0.50
1992	2011	22.24	0.002179	343.99	1.69	1.00	-0.50	0.50
1991	2011	21.72	0.002239	343.06	1.71	1.00	-0.50	0.50
1990	2011	21.58	0.002306	340.57	1.72	1.00	-0.50	0.50
1989	2011	21.58	0.002284	340.57	1.72	1.00	-0.50	0.50
1988	2011	21.66	0.002215	339.40	1.72	1.00	-0.50	0.50
1987	2011	21.68	0.002201	339.08	1.71	1.00	-0.50	0.50
1986	2011	21.66	0.002169	339.37	1.71	1.00	-0.50	0.50
1985	2011	21.67	0.002142	339.13	1.71	1.00	-0.50	0.50
1984	2011	21.71	0.002123	343.21	1.71	1.00	-0.50	0.50
1983	2011	21.72	0.002112	343.01	1.71	1.00	-0.50	0.50

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38700 Other Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	20.90	0.004304	255.98	2.03	1.50	0.00	1.00
1986	1990	18.70	0.004311	227.28	2.40	2.00	1.00	1.50
1987	1991	16.76	0.004393	229.75	2.42	2.00	1.00	1.50
1988	1992	15.99	0.005675	228.30	2.60	3.00	1.00	2.00
1989	1993	16.03	0.005533	258.81	2.34	2.00	1.00	1.50
1990	1994	15.84	0.005839	262.03	2.36	2.00	1.00	1.50
1991	1995	14.51	0.009546	265.38	2.38	2.00	1.00	1.50
1992	1996	15.83	0.009301	249.56	2.41	2.00	1.00	1.50
1993	1997	17.74	0.006873	250.90	2.42	2.00	1.00	1.50
1994	1998	16.44	0.007384	288.95	2.10	2.00	0.50	1.50
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	21.11	0.004425	262.94	2.44	2.00	1.00	1.50
2002	2006	23.70	0.002952	305.97	1.95	1.50	0.00	1.00
2003	2007	25.44	0.002872	304.65	1.75	1.50	0.00	0.50
2004	2008	26.27	0.002741	302.58	1.78	1.50	0.00	1.00
2005	2009	50.50	0.001274	381.17	1.05	0.00	SC	0.50
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	52.47	0.001156	288.72	1.77	1.50	0.00	1.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38700 Other Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	52.47	0.001156	288.71	1.77	1.50	0.00	1.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	31.06	0.001504	336.50	1.69	1.00	-0.50	0.50
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1983	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 38700 Other Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1983	1987	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	19.59	0.004328	201.59	2.38	2.00	1.00	1.50
1986	1990	18.37	0.004341	204.17	2.54	2.00	1.00	2.00
1987	1991	16.70	0.004439	218.56	2.47	2.00	1.00	2.00
1988	1992	15.98	0.005736	222.22	2.65	3.00	1.00	2.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	43.28	0.001167	199.87	2.57	3.00	1.00	2.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 38700 Other Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	43.28	0.001167	199.85	2.57	3.00	1.00	2.00
2006	2011	43.93	0.001111	217.38	2.03	1.50	0.00	1.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1983	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 387.00 - Other Equipment
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	26,324	0	0	0	0	0	0
2009	3,407	0	0	0	0	0	0
2008	11,012	0	0	0	0	0	0
2007	21,823	446	2	0	0	446	2
2006	41,928	0	0	0	0	0	0
2005	9,753	0	0	0	0	0	0
2004	61,154	0	0	0	0	0	0
2003	4,758	0	0	0	0	0	0
2002	12,377	0	0	0	0	0	0
2001	47,514	0	0	0	0	0	0
2000	120,495	0	0	0	0	0	0
1999	65,404	0	0	65	0	65	0
1998	63,155	0	0	0	0	0	0
1997	5,063	0	0	0	0	0	0
1996	13,331	0	0	0	0	0	0
1995	74,531	0	0	0	0	0	0
1994	29,835	(457)	(2)	0	0	(457)	(2)
1993	17,636	0	0	0	0	0	0
1992	46,567	0	0	0	0	0	0
1991	66,452	0	0	0	0	0	0
1990	23,245	0	0	0	0	0	0
1989	13,833	0	0	0	0	0	0
1988	8,123	0	0	0	0	0	0
1987	13,928	0	0	0	0	0	0
1986	11,642	(27)	(0)	0	0	(27)	(0)
1985	8,431	0	0	0	0	0	0
1984	5,402	992	18	0	0	992	18
1983	5,361	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	832,483	**954**	**0**	**65**	**0**	**1,019**	**0**

Peoples Gas System
Net Salvage Analysis
Account - 387.00 - Other Equipment
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	104,494	446	0	0	0	446	0
2009	87,923	446	1	0	0	446	1
2008	145,671	446	0	0	0	446	0
2007	139,416	446	0	0	0	446	0
2006	129,970	0	0	0	0	0	0
2005	135,556	0	0	0	0	0	0
2004	246,298	0	0	0	0	0	0
2003	250,548	0	0	65	0	65	0
2002	308,945	0	0	65	0	65	0
2001	301,631	0	0	65	0	65	0
2000	267,449	0	0	65	0	65	0
1999	221,484	0	0	65	0	65	0
1998	185,915	(457)	(0)	0	0	(457)	(0)
1997	140,396	(457)	(0)	0	0	(457)	(0)
1996	181,899	(457)	(0)	0	0	(457)	(0)
1995	235,020	(457)	(0)	0	0	(457)	(0)
1994	183,734	(457)	(0)	0	0	(457)	(0)
1993	167,733	0	0	0	0	0	0
1992	158,220	0	0	0	0	0	0
1991	125,580	0	0	0	0	0	0
1990	70,770	(27)	(0)	0	0	(27)	(0)
1989	55,956	(27)	(0)	0	0	(27)	(0)
1988	47,525	965	2	0	0	965	2
1987	44,764	965	2	0	0	965	2
1986	30,836	965	3	0	0	965	3

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39201. Vehicles Up to 1/2 Ton

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 8.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 10.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	1760000.	0.062081	109262.	1650738.
2010	1.50	1050029.	0.179691	188680.	861349.
2009	2.50	421330.	0.284928	120049.	301281.
2008	3.50	527791.	0.377378	199177.	328614.
2007	4.50	948423.	0.458402	434759.	513664.
2006	5.50	1217144.	0.529791	644832.	572312.
2005	6.50	269176.	0.593237	159685.	109491.
2004	7.50	844263.	0.650192	548933.	295330.
2003	8.50	29123.	0.701824	20439.	8684.
2002	9.50	396109.	0.749047	296704.	99405.
2001	10.50	319491.	0.792548	253212.	66279.
2000	11.50	55524.	0.832810	46241.	9283.
1999	12.50	2447.	0.870035	2129.	318.
1998	13.50	28108.	0.903947	25408.	2700.
1997	14.50	33297.	0.932892	31063.	2234.
1996	15.50	149387.	0.968749	144719.	4668.
1995	16.50	0.	1.000000	0.	0.
1994	17.50	0.	1.000000	0.	0.
1993	18.50	0.	1.000000	0.	0.
1992	19.50	27989.	1.000000	27989.	0.
1991	20.50	0.	1.000000	0.	0.
1990	21.50	0.	1.000000	0.	0.
1989	22.50	0.	1.000000	0.	0.
1988	23.50	0.	1.000000	0.	0.
1987	24.50	17993.	1.000000	17993.	0.
SUBTOTAL :			0.403980	3271274.	4826350.
NET SALVAGE: 10.0%				-327127.	327127.
TOTAL :		8097624.	0.363582	2944147.	5153477.

WEIGHTED AGE: 4.5 YEARS
REMAINING LIFE: 4.8 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39201. Vehicles Up to 1/2 Ton

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 8.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 10.

I	II	III	IV	V
		ORIGINAL	ANNUAL	ORIGINAL COST
	AGE	COST	DEPRECIATION	ANNUAL
YEAR	INTERVAL	12/31/11	RATE	DEPRECIATION
2011	0.50 - 1.50	1760000.	0.125000	220000.
2010	1.50 - 2.50	1050029.	0.125000	131254.
2009	2.50 - 3.50	421330.	0.125000	52666.
2008	3.50 - 4.50	527791.	0.125000	65974.
2007	4.50 - 5.50	948423.	0.125000	118553.
2006	5.50 - 6.50	1217144.	0.125000	152143.
2005	6.50 - 7.50	269176.	0.125000	33647.
2004	7.50 - 8.50	844263.	0.125000	105533.
2003	8.50 - 9.50	29123.	0.125000	3640.
2002	9.50 - 10.50	396109.	0.125000	49514.
2001	10.50 - 11.50	319491.	0.125000	39936.
2000	11.50 - 12.50	55524.	0.125000	6940.
1999	12.50 - 13.50	2447.	0.125000	306.
1998	13.50 - 14.50	28108.	0.125000	3513.
1997	14.50 - 15.50	33297.	0.125000	4162.
1996	15.50 - 16.50	149387.	0.125000	18673.
1995	16.50 - 17.50	0.	0.125000	0.
1994	17.50 - 18.50	0.	0.125000	0.
1993	18.50 - 19.50	0.	0.125000	0.
1992	19.50 - 20.50	27989.	0.125000	3499.
1991	20.50 - 21.50	0.	0.125000	0.
1990	21.50 - 22.50	0.	0.125000	0.
1989	22.50 - 23.50	0.	0.125000	0.
1988	23.50 - 24.50	0.	0.125000	0.
1987	24.50 - 25.50	17993.	0.125000	2249.
SUBTOTAL :		8097624.	0.125000	1012203.
NET SALVAGE: 10.0 %				-101220.
TOTAL :		8097624.	0.112500	910983.

MONTHLY RATE: 0.009375

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39201. Vehicles Up to 1/2 Ton

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 8.0 YRS CURVE: IOWA S1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	1760000.	7.5	13205902.
2010	1.50	1050029.	6.6	6890788.
2009	2.50	421330.	5.7	2410251.
2008	3.50	527791.	5.0	2628916.
2007	4.50	948423.	4.3	4109311.
2006	5.50	1217144.	3.8	4578493.
2005	6.50	269176.	3.3	875926.
2004	7.50	844263.	2.8	2362641.
2003	8.50	29123.	2.4	69470.
2002	9.50	396109.	2.0	795238.
2001	10.50	319491.	1.7	530233.
2000	11.50	55524.	1.3	74264.
1999	12.50	2447.	1.0	2544.
1998	13.50	28108.	0.8	21599.
1997	14.50	33297.	0.5	17876.
1996	15.50	149387.	0.3	37348.
1995	16.50	0.	0.0	0.
1994	17.50	0.	0.0	0.
1993	18.50	0.	0.0	0.
1992	19.50	27989.	0.0	0.
1991	20.50	0.	0.0	0.
1990	21.50	0.	0.0	0.
1989	22.50	0.	0.0	0.
1988	23.50	0.	0.0	0.
1987	24.50	17993.	0.0	0.
TOTAL:		8097624.	4.8	38610799.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39201. Vehicles Up to 1/2 Ton

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 8.0 YEARS CURVE: IOWA S1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0625	99.95675	0.04325	49.98919	0.125000	6.24865	6.20540	0.062081
1.50	0.1875	99.12000	0.83675	99.53838	0.125000	12.44230	17.81095	0.179691
2.50	0.3125	96.60075	2.51925	97.86038	0.125000	12.23255	27.52424	0.284928
3.50	0.4375	92.01125	4.58950	94.30600	0.125000	11.78825	34.72299	0.377378
4.50	0.5625	85.31325	6.69800	88.66225	0.125000	11.08278	39.10777	0.458402
5.50	0.6875	76.72750	8.58575	81.02037	0.125000	10.12755	40.64957	0.529791
6.50	0.8125	66.66300	10.06450	71.69525	0.125000	8.96191	39.54698	0.593237
7.50	0.9375	55.66125	11.00175	61.16212	0.125000	7.64527	36.19049	0.650192
8.50	1.0625	44.33875	11.32250	50.00000	0.125000	6.25000	31.11799	0.701824
9.50	1.1875	33.33700	11.00175	38.83788	0.125000	4.85473	24.97098	0.749047
10.50	1.3125	23.27250	10.06450	28.30475	0.125000	3.53809	18.44457	0.792548
11.50	1.4375	14.68675	8.58575	18.97963	0.125000	2.37245	12.23127	0.832810
12.50	1.5625	7.98875	6.69800	11.33775	0.125000	1.41722	6.95049	0.870035
13.50	1.6875	3.39925	4.58950	5.69400	0.125000	0.71175	3.07274	0.903947
14.50	1.8125	0.88000	2.51925	2.13962	0.125000	0.26745	0.82095	0.932892
15.50	1.9375	0.04325	0.83675	0.46163	0.125000	0.05770	0.04190	0.968749
16.50	2.0625	0.00000	0.04325	0.02163	0.125000	0.00270	0.00000	1.000000
		800.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
2011	1760000.	0.	0.	0.	0.	0.	0.	0.	0
2010	1050029.	0.	0.	0.	0.	0.	0.	0.	0
2009	421330.	0.	0.	0.	0.	0.	0.	0.	0
2008	527791.	0.	0.	0.	0.	0.	0.	0.	0
2007	948423.	0.	0.	0.	0.	0.	0.	0.	0
2006	1217144.	0.	97580.	2817.	0.	0.	0.	0.	0
2005	269176.	0.	0.	0.	0.	20914.	0.	0.	0
2004	844263.	0.	121271.	0.	0.	0.	0.	16632.	0
2003	29123.	0.	0.	37907.	0.	0.	0.	0.	0
2002	396109.	0.	181389.	130388.	109720.	89128.	24235.	38412.	0
2001	319491.	0.	202731.	157317.	246309.	195524.	45491.	79809.	39414
2000	55524.	0.	55733.	51529.	79294.	250082.	150504.	97030.	0
1999	2447.	0.	14848.	45872.	100103.	215795.	108542.	138551.	24554
1998	28108.	0.	55884.	37977.	77714.	165438.	195392.	198706.	128435
1997	33297.	0.	70526.	23570.	60414.	180167.	173304.	244608.	408701
1996	149387.	0.	19074.	41777.	54765.	238721.	37619.	114023.	225694
1995	0.	0.	0.	0.	0.	20976.	29394.	0.	28406
1994	0.	0.	0.	0.	0.	17674.	20334.	0.	184580
1993	0.	0.	0.	0.	0.	24292.	0.	0.	0
1992	27989.	0.	0.	0.	0.	0.	0.	0.	0
1991	0.	0.	0.	0.	0.	0.	0.	23881.	21663
1990	0.	0.	0.	0.	0.	0.	0.	13549.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	0.	0.	0.	0.	0.	0.	0.	17323.	24114
1987	17993.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	8097624.	0.	819036.	529154.	728319.	1418711.	784815.	982524.	1085561

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	1760000.	0.	0.	0.	0.	0.	0.	0.	0
2010	1050029.	0.	0.	0.	0.	0.	0.	0.	0
2009	421330.	0.	0.	0.	0.	0.	0.	0.	0
2008	527791.	0.	0.	0.	0.	0.	0.	0.	0
2007	948423.	0.	0.	0.	0.	0.	0.	0.	0
2006	1217144.	0.	0.	0.	0.	0.	0.	0.	0
2005	269176.	0.	0.	0.	0.	0.	0.	0.	0
2004	844263.	0.	0.	0.	0.	0.	0.	0.	0
2003	29123.	0.	0.	0.	0.	0.	0.	0.	0
2002	396109.	0.	0.	0.	0.	0.	0.	0.	0
2001	319491.	21475.	0.	0.	0.	0.	0.	0.	0
2000	55524.	0.	0.	1067.	0.	0.	0.	0.	0
1999	2447.	0.	0.	0.	0.	23249.	0.	0.	0
1998	28108.	36571.	36077.	27444.	0.	0.	0.	0.	0
1997	33297.	58731.	214041.	86750.	14708.	12750.	80890.	0.	0
1996	149387.	20358.	512101.	231825.	15707.	13355.	125784.	0.	12840
1995	0.	68141.	188889.	145634.	73703.	92283.	209821.	0.	0
1994	0.	52554.	257371.	470384.	90237.	63755.	325676.	24640.	1764
1993	0.	0.	68939.	191609.	63940.	203098.	800303.	11859.	148138
1992	27989.	0.	16738.	38580.	137036.	123404.	594510.	100702.	25418
1991	0.	26383.	80152.	77700.	49705.	50326.	435681.	249175.	14175
1990	0.	0.	13931.	0.	55721.	49594.	350541.	199628.	99536
1989	0.	0.	16969.	0.	0.	11490.	278852.	274169.	139248
1988	0.	0.	21511.	11853.	21558.	34849.	254988.	292972.	280351
1987	17993.	0.	0.	0.	0.	0.	26476.	66505.	111329
TOTAL	8097624.	284213.	1426719.	1282846.	522315.	678153.	3483522.	1219650.	832799

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990
2011	1760000.	0.	0.	0.	0.	0.	0.
2010	1050029.	0.	0.	0.	0.	0.	0.
2009	421330.	0.	0.	0.	0.	0.	0.
2008	527791.	0.	0.	0.	0.	0.	0.
2007	948423.	0.	0.	0.	0.	0.	0.
2006	1217144.	0.	0.	0.	0.	0.	0.
2005	269176.	0.	0.	0.	0.	0.	0.
2004	844263.	0.	0.	0.	0.	0.	0.
2003	29123.	0.	0.	0.	0.	0.	0.
2002	396109.	0.	0.	0.	0.	0.	0.
2001	319491.	0.	0.	0.	0.	0.	0.
2000	55524.	0.	0.	0.	0.	0.	0.
1999	2447.	0.	0.	0.	0.	0.	0.
1998	28108.	0.	0.	0.	0.	0.	0.
1997	33297.	0.	0.	0.	0.	0.	0.
1996	149387.	0.	0.	0.	0.	0.	0.
1995	0.	0.	0.	0.	0.	0.	0.
1994	0.	11835.	0.	0.	0.	0.	0.
1993	0.	20080.	0.	0.	0.	0.	0.
1992	27989.	11802.	0.	0.	0.	0.	0.
1991	0.	37381.	1562.	1851.	167.	0.	0.
1990	0.	33862.	14320.	13103.	403.	0.	0.
1989	0.	175853.	25587.	95350.	0.	0.	0.
1988	0.	261341.	78973.	217575.	35614.	0.	1295.
1987	17993.	165170.	104581.	254783.	78683.	0.	0.
TOTAL	8097624.	717324.	225023.	582662.	114867.	0.	1295.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1990 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	22419777.	36089.	0.00160969	0.99839031	1.00000000
0.5	21641206.	110591.	0.00511021	0.99488979	0.99839031
1.5	22034903.	206316.	0.00936315	0.99063685	0.99328833
2.5	22232777.	545216.	0.02452307	0.97547693	0.98398802
3.5	21159770.	978059.	0.04622257	0.95377743	0.95985761
4.5	19233288.	2146985.	0.11162860	0.88837140	0.91549053
5.5	15869159.	3344543.	0.21075742	0.78924258	0.81329560
6.5	12255440.	3350182.	0.27336285	0.72663715	0.64188752
7.5	8060995.	3074203.	0.38136768	0.61863232	0.46641932
8.5	4957669.	1778059.	0.35864819	0.64135181	0.28854206
9.5	2783501.	1064827.	0.38254953	0.61745047	0.18505697
10.5	1399183.	522831.	0.37366878	0.62633122	0.11426352
11.5	820828.	237401.	0.28922137	0.71077863	0.07156681
12.5	580980.	180462.	0.31061654	0.68938346	0.05086816
13.5	372410.	88758.	0.23833409	0.76166591	0.03506767
14.5	250355.	13549.	0.05411915	0.94588085	0.02670985
15.5	87420.	24114.	0.27584077	0.72415923	0.02526433
16.5	63306.	17323.	0.27363915	0.72636085	0.01829540
17.5	45983.	0.	0.00000000	1.00000000	0.01328906
18.5	45982.	0.	0.00000000	1.00000000	0.01328906
19.5	17994.	0.	0.00000000	1.00000000	0.01328906
20.5	17994.	0.	0.00000000	1.00000000	0.01328906
21.5	17994.	0.	0.00000000	1.00000000	0.01328906
22.5	17994.	0.	0.00000000	1.00000000	0.01328906
23.5	17993.	0.	0.00000000	1.00000000	0.01328906
TOTAL		17719508.			7.68127542

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	8.84	0.004792	345.08	2.49	2.00	1.00	2.00
1991	1995	8.26	0.007222	333.08	2.62	3.00	1.00	2.00
1992	1996	8.03	0.007546	330.11	2.64	3.00	1.00	2.00
1993	1997	7.55	0.009292	311.14	2.78	3.00	1.50	2.00
1994	1998	6.42	0.008668	288.14	2.72	3.00	1.50	2.00
1995	1999	6.31	0.008704	277.26	2.68	3.00	1.50	2.00
1996	2000	6.40	0.009962	288.92	2.69	3.00	1.50	2.00
1997	2001	6.24	0.014529	280.26	2.69	3.00	1.50	2.00
1998	2002	6.10	0.016230	287.03	2.64	3.00	1.00	2.00
1999	2003	7.53	0.013589	312.16	2.67	3.00	1.50	2.00
2000	2004	7.53	0.014886	312.27	2.77	3.00	1.50	2.00
2001	2005	7.38	0.013183	318.25	2.60	3.00	1.00	2.00
2002	2006	7.76	0.011445	328.60	2.53	2.00	1.00	2.00
2003	2007	7.87	0.012037	324.14	2.63	3.00	1.00	2.00
2004	2008	7.55	0.014099	324.30	2.57	3.00	1.00	2.00
2005	2009	7.77	0.015260	340.86	2.45	2.00	1.00	1.50
2006	2010	7.86	0.017571	337.11	2.51	2.00	1.00	2.00
2007	2011	8.44	0.017240	349.65	2.41	2.00	1.00	1.50

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	8.44	0.017240	349.65	2.41	2.00	1.00	1.50
2006	2011	8.44	0.016922	349.39	2.41	2.00	1.00	1.50
2005	2011	8.29	0.015001	355.69	2.36	2.00	1.00	1.50
2004	2011	8.17	0.014629	348.99	2.43	2.00	1.00	1.50
2003	2011	8.38	0.013707	352.07	2.45	2.00	1.00	2.00
2002	2011	8.06	0.014148	341.32	2.44	2.00	1.00	1.50
2001	2011	7.88	0.014664	348.93	2.43	2.00	1.00	1.50
2000	2011	7.95	0.014397	345.75	2.48	2.00	1.00	2.00
1999	2011	7.93	0.013813	334.12	2.48	2.00	1.00	2.00
1998	2011	7.27	0.014130	350.83	2.34	2.00	1.00	1.50
1997	2011	7.26	0.014203	337.58	2.40	2.00	1.00	1.50
1996	2011	7.30	0.013564	335.63	2.42	2.00	1.00	1.50
1995	2011	7.33	0.013290	334.42	2.44	2.00	1.00	1.50
1994	2011	7.40	0.012932	331.09	2.46	2.00	1.00	2.00
1993	2011	7.39	0.012686	331.75	2.46	2.00	1.00	2.00
1992	2011	7.42	0.012587	330.16	2.48	2.00	1.00	2.00
1991	2011	7.45	0.012512	328.93	2.50	2.00	1.00	2.00
1990	2011	7.46	0.012395	328.62	2.50	2.00	1.00	2.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	7.71	0.001432	162.18	3.89	4.00	3.00	3.00
1991	1995	7.61	0.002681	164.18	3.76	4.00	3.00	3.00
1992	1996	7.68	0.002817	162.72	3.46	3.00	2.00	3.00
1993	1997	7.56	0.003412	165.43	3.54	4.00	2.00	3.00
1994	1998	6.57	0.004367	190.37	2.93	3.00	1.50	2.50
1995	1999	6.42	0.008405	210.19	2.83	3.00	1.50	2.00
1996	2000	6.45	0.010335	240.36	2.74	3.00	1.50	2.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	7.61	0.002711	151.10	3.95	4.00	3.00	3.00
1992	1996	7.69	0.002414	149.55	3.79	4.00	3.00	3.00
1993	1997	7.56	0.003472	165.25	3.60	4.00	3.00	3.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39201 Vehicles Up to 1/2 Ton

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 392.01 - Vehicles up to 1/2 Tons
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	818,735	0	0	71,765	9	71,765	9
2009	529,153	0	0	38,640	7	38,640	7
2008	728,319	0	0	46,895	6	46,895	6
2007	1,418,712	3,275	0	65,208	5	68,483	5
2006	784,816	(7,811)	(1)	49,560	6	41,749	5
2005	982,523	(13,370)	(1)	109,041	11	95,670	10
2004	1,085,562	(6,737)	(1)	82,937	8	76,200	7
2003	284,213	0	0	20,300	7	20,300	7
2002	1,442,695	(2,583)	(0)	163,841	11	161,258	11
2001	1,297,856	(21,890)	(2)	152,136	12	130,246	10
2000	522,316	0	0	57,785	11	57,785	11
1999	706,927	0	0	74,901	11	74,901	11
1998	3,581,288	(1,962)	(0)	417,029	12	415,067	12
1997	1,275,003	(2,669)	(0)	94,006	7	91,337	7
1996	954,679	(961)	(0)	116,335	12	115,374	12
1995	887,705	(1,938)	(0)	81,520	9	79,582	9
1994	424,224	(2,022)	(0)	24,375	6	22,353	5
1993	1,104,709	(613)	(0)	82,950	8	82,337	7
1992	776,700	(2,424)	(0)	68,731	9	66,307	9
1991	531,274	(5,747)	(1)	13,459	3	7,712	1
1990	657,392	(5,533)	(1)	60,200	9	54,667	8
1989	428,535	(385)	(0)	46,459	11	46,074	11
1988	561,138	(1,460)	(0)	63,748	11	62,287	11
1987	240,698	(945)	(0)	18,875	8	17,930	7
1986	297,937	(962)	(0)	30,357	10	29,395	10
1985	287,318	(1,529)	(1)	44,191	15	42,662	15
1984	124,674	(596)	(0)	18,800	15	18,204	15
1983	166,003	(809)	(0)	28,775	17	27,966	17
1982	0	0	0	0	0	0	0
	22,901,103	**(79,671)**	**(0)**	**2,142,818**	**9**	**2,063,147**	**9**

Peoples Gas System
Net Salvage Analysis
Account - 392.01 - Vehicles up to 1/2 Tons
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	4,279,735	(4,536)	(0)	272,068	6	267,532	6
2009	4,443,523	(17,906)	(0)	309,344	7	291,438	7
2008	4,999,933	(24,643)	(0)	353,641	7	328,997	7
2007	4,555,827	(24,643)	(1)	327,045	7	302,402	7
2006	4,579,810	(30,501)	(1)	425,679	9	395,178	9
2005	5,092,849	(44,581)	(1)	528,255	10	483,674	9
2004	4,632,642	(31,211)	(1)	476,999	10	445,789	10
2003	4,254,007	(24,473)	(1)	468,963	11	444,490	10
2002	7,551,081	(26,436)	(0)	865,692	11	839,257	11
2001	7,383,390	(26,522)	(0)	795,857	11	769,335	10
2000	7,040,213	(5,593)	(0)	760,056	11	754,463	11
1999	7,405,603	(7,531)	(0)	783,791	11	776,260	10
1998	7,122,900	(9,553)	(0)	733,265	10	723,712	10
1997	4,646,321	(8,204)	(0)	399,186	9	390,983	8
1996	4,148,017	(7,958)	(0)	373,911	9	365,953	9
1995	3,724,611	(12,744)	(0)	271,035	7	258,291	7
1994	3,494,298	(16,339)	(0)	249,715	7	233,376	7
1993	3,498,609	(14,702)	(0)	271,799	8	257,097	7
1992	2,955,038	(15,549)	(1)	252,597	9	237,048	8
1991	2,419,036	(14,069)	(1)	202,741	8	188,671	8
1990	2,185,700	(9,285)	(0)	219,639	10	210,354	10
1989	1,815,625	(5,280)	(0)	203,630	11	198,350	11
1988	1,511,764	(5,491)	(0)	175,971	12	170,479	11
1987	1,116,630	(4,840)	(0)	140,998	13	136,158	12
1986	875,931	(3,895)	(0)	122,123	14	118,228	13

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39202. Vehicles From 1/2 - 1 Ton

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 7.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 10.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.070823	0.	0.
2010	1.50	1044616.	0.203291	212361.	832255.
2009	2.50	170354.	0.319231	54382.	115972.
2008	3.50	608733.	0.418985	255050.	353683.
2007	4.50	887913.	0.504952	448353.	439560.
2006	5.50	645020.	0.579768	373962.	271058.
2005	6.50	286990.	0.645699	185309.	101681.
2004	7.50	712184.	0.704535	501759.	210425.
2003	8.50	0.	0.757630	0.	0.
2002	9.50	436083.	0.805931	351453.	84630.
2001	10.50	345352.	0.849964	293537.	51815.
2000	11.50	110131.	0.889646	97978.	12153.
1999	12.50	51227.	0.923233	47294.	3933.
1998	13.50	0.	0.964287	0.	0.
1997	14.50	17250.	1.000000	17250.	0.
SUBTOTAL :			0.534004	2838688.	2477165.
NET SALVAGE: 10.0%				-283869.	283869.
TOTAL :		5315853.	0.480604	2554819.	2761034.

WEIGHTED AGE: 5.4 YEARS
REMAINING LIFE: 3.3 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39202. Vehicles From 1/2 - 1 Ton

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 7.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 10.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.142857	0.
2010	1.50 - 2.50	1044616.	0.142857	149231.
2009	2.50 - 3.50	170354.	0.142857	24336.
2008	3.50 - 4.50	608733.	0.142857	86962.
2007	4.50 - 5.50	887913.	0.142857	126845.
2006	5.50 - 6.50	645020.	0.142857	92146.
2005	6.50 - 7.50	286990.	0.142857	40999.
2004	7.50 - 8.50	712184.	0.142857	101741.
2003	8.50 - 9.50	0.	0.142857	0.
2002	9.50 - 10.50	436083.	0.142857	62298.
2001	10.50 - 11.50	345352.	0.142857	49336.
2000	11.50 - 12.50	110131.	0.142857	15733.
1999	12.50 - 13.50	51227.	0.142857	7318.
1998	13.50 - 14.50	0.	0.142857	0.
1997	14.50 - 15.50	17250.	0.142857	2464.
SUBTOTAL :		5315853.	0.142857	759408.
NET SALVAGE: 10.0 %				-75941.
TOTAL :		5315853.	0.128571	683467.

MONTHLY RATE: 0.010714

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39202. Vehicles From 1/2 - 1 Ton

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 7.0 YRS CURVE: IOWA S1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	0.	6.5	0.
2010	1.50	1044616.	5.6	5825784.
2009	2.50	170354.	4.8	811802.
2008	3.50	608733.	4.1	2475781.
2007	4.50	887913.	3.5	3076917.
2006	5.50	645020.	2.9	1897406.
2005	6.50	286990.	2.5	711767.
2004	7.50	712184.	2.1	1472976.
2003	8.50	0.	1.7	0.
2002	9.50	436083.	1.4	592412.
2001	10.50	345352.	1.1	362707.
2000	11.50	110131.	0.8	85074.
1999	12.50	51227.	0.5	27528.
1998	13.50	0.	0.2	0.
1997	14.50	17250.	0.0	0.
TOTAL:		5315853.	3.3	17340153.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39202. Vehicles From 1/2 - 1 Ton

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 7.0 YEARS CURVE: IOWA S1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0714	99.93728	0.06272	49.98432	0.142857	7.14062	7.07790	0.070823
1.50	0.2143	98.74128	1.19600	99.33928	0.142857	14.19133	20.07323	0.203291
2.50	0.3571	95.20786	3.53343	96.97457	0.142857	13.85351	30.39331	0.319231
3.50	0.5000	88.91800	6.28986	92.06293	0.142857	13.15185	37.25530	0.418985
4.50	0.6429	79.98814	8.92986	84.45307	0.142857	12.06472	40.39017	0.504952
5.50	0.7857	68.91857	11.06957	74.45336	0.142857	10.63619	39.95679	0.579768
6.50	0.9286	56.46543	12.45314	62.69200	0.142857	8.95600	36.45965	0.645699
7.50	1.0714	43.53457	12.93085	50.00000	0.142857	7.14286	30.67165	0.704535
8.50	1.2143	31.08143	12.45314	37.30800	0.142857	5.32971	23.54822	0.757630
9.50	1.3571	20.01186	11.06957	25.54664	0.142857	3.64952	16.12817	0.805931
10.50	1.5000	11.08200	8.92986	15.54693	0.142857	2.22099	9.41930	0.849964
11.50	1.6429	4.79214	6.28986	7.93707	0.142857	1.13387	4.26331	0.889646
12.50	1.7857	1.25871	3.53343	3.02543	0.142857	0.43220	1.16209	0.923233
13.50	1.9286	0.06271	1.19600	0.66071	0.142857	0.09439	0.06047	0.964287
14.50	2.0714	0.00000	0.06271	0.03136	0.142857	0.00448	0.00000	1.000000
		700.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39202 Vehicles From 1/2 - 1 Ton

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0.
2010	1044616.	0.	0.	0.	0.	0.	0.	0.	0.
2009	170354.	0.	0.	0.	0.	0.	0.	0.	0.
2008	608733.	0.	0.	0.	0.	0.	0.	0.	0.
2007	887913.	0.	0.	0.	0.	0.	0.	0.	0.
2006	645020.	0.	0.	0.	0.	0.	0.	0.	0.
2005	286990.	0.	0.	0.	0.	0.	0.	0.	0.
2004	712184.	0.	63545.	26600.	0.	0.	0.	0.	0.
2003	0.	0.	19777.	0.	0.	0.	0.	0.	0.
2002	436083.	0.	231440.	45285.	118754.	22023.	0.	0.	0.
2001	345352.	0.	101320.	68208.	75786.	70947.	0.	0.	0.
2000	110131.	0.	130296.	21692.	189625.	263215.	70786.	79775.	0.
1999	51227.	0.	19198.	0.	51037.	120014.	19221.	50731.	0.
1998	0.	0.	0.	0.	0.	0.	0.	0.	0.
1997	17250.	0.	0.	0.	0.	30020.	0.	0.	14250.
TOTAL	5315853.	0.	565576.	161785.	435202.	506219.	90007.	130506.	14250.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39202 Vehicles From 1/2 - 1 Ton

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 2004 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	4445956.	0.	0.00000000	1.00000000	1.00000000
0.5	4465732.	0.	0.00000000	1.00000000	1.00000000
1.5	4274701.	0.	0.00000000	1.00000000	1.00000000
2.5	4765960.	0.	0.00000000	1.00000000	1.00000000
3.5	5022747.	0.	0.00000000	1.00000000	1.00000000
4.5	4446262.	128398.	0.02887774	0.97112226	1.00000000
5.5	3672844.	374763.	0.10203619	0.89796381	0.97112226
6.5	3072611.	437534.	0.14239811	0.85760189	0.87203265
7.5	1922894.	609287.	0.31685938	0.68314062	0.74785685
8.5	1313606.	174049.	0.13249711	0.86750289	0.51089139
9.5	703474.	160316.	0.22789186	0.77210814	0.44319976
10.5	197806.	19198.	0.09705469	0.90294531	0.34219814
11.5	68477.	0.	0.00000000	1.00000000	0.30898620
12.5	17251.	0.	0.00000000	1.00000000	0.30898620
13.5	17250.	0.	0.00000000	1.00000000	0.30898620
TOTAL		1903545.			9.81425965

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39202 Vehicles From 1/2 - 1 Ton

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2004	2008	8.38	0.016573	304.15	2.87	3.00	1.50	2.50
2005	2009	8.95	0.012319	329.75	2.66	3.00	1.50	2.00
2006	2010	8.62	0.016040	307.60	2.82	3.00	1.50	2.00
2007	2011	9.38	0.017038	335.84	2.59	3.00	1.00	2.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39202 Vehicles From 1/2 - 1 Ton

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	9.38	0.017038	335.84	2.59	3.00	1.00	2.00
2006	2011	9.56	0.016356	340.04	2.60	3.00	1.00	2.00
2005	2011	9.56	0.014922	340.02	2.58	3.00	1.00	2.00
2004	2011	9.61	0.014522	338.02	2.60	3.00	1.00	2.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39202 Vehicles From 1/2 - 1 Ton

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2004	2008	8.02	0.010569	155.87	4.04	4.00	3.00	3.00
2005	2009	8.73	0.011549	177.49	3.61	4.00	3.00	3.00
2006	2010	8.67	0.015292	178.74	3.70	4.00	3.00	3.00
2007	2011	9.34	0.017900	283.59	2.75	3.00	1.50	2.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39202 Vehicles From 1/2 - 1 Ton

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	9.34	0.017900	283.59	2.75	3.00	1.50	2.00
2006	2011	9.48	0.017179	258.55	2.89	3.00	1.50	2.50
2005	2011	9.46	0.015683	248.50	2.89	3.00	1.50	2.50
2004	2011	9.49	0.015253	247.61	2.96	3.00	1.50	2.50

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39202 Vehicles From 1/2 - 1 Ton

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39202 Vehicles From 1/2 - 1 Ton

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 392.02 - Vehicles from to 1/2 - 1 Tons
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	565,575	0	0	39,866	7	39,866	7
2009	161,786	0	0	12,435	8	12,435	8
2008	435,202	0	0	33,596	8	33,596	8
2007	506,219	0	0	25,874	5	25,874	5
2006	90,006	(431)	(0)	8,000	9	7,569	8
2005	130,505	(1,135)	(1)	11,000	8	9,865	8
2004	14,250	(196)	(1)	2,000	14	1,805	13
2003	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0
2001	0	0	0	4,800	0	4,800	0
2000	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1988	87,817	0	0	7,100	8	7,100	8
1987	126,088	(166)	(0)	8,200	7	8,034	6
1986	136,151	(308)	(0)	17,350	13	17,042	13
1985	202,664	(288)	(0)	17,981	9	17,693	9
1984	59,581	(904)	(2)	15,501	26	14,597	25
1983	168,805	(1,622)	(1)	14,025	8	12,403	7
1982	0	0	0	0	0	0	0
	2,684,649	**(5,050)**	**(0)**	**217,728**	**8**	**212,678**	**8**

Peoples Gas System
Net Salvage Analysis
Account - 392.02 - Vehicles from to 1/2 - 1 Tons
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	1,758,788	(431)	(0)	119,771	7	119,340	7
2009	1,323,718	(1,567)	(0)	90,905	7	89,338	7
2008	1,176,182	(1,762)	(0)	80,470	7	78,708	7
2007	740,981	(1,762)	(0)	46,874	6	45,112	6
2006	234,762	(1,762)	(1)	21,000	9	19,238	8
2005	144,755	(1,331)	(1)	17,800	12	16,469	11
2004	14,250	(196)	(1)	6,800	48	6,605	46
2003	0	0	0	4,800	0	4,800	0
2002	0	0	0	4,800	0	4,800	0
2001	0	0	0	4,800	0	4,800	0
2000	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	87,817	0	0	7,100	8	7,100	8
1991	213,905	(166)	(0)	15,300	7	15,134	7
1990	350,056	(474)	(0)	32,650	9	32,176	9
1989	552,719	(762)	(0)	50,631	9	49,869	9
1988	612,300	(1,666)	(0)	66,132	11	64,466	11
1987	693,289	(3,288)	(0)	73,057	11	69,769	10
1986	567,201	(3,122)	(1)	64,857	11	61,735	11

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204. Trailers & Other

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 20.0 YRS CURVE: IOWA S3 O.C. SALVAGE %: 20.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.025000	0.	0.
2010	1.50	2115.	0.075000	159.	1956.
2009	2.50	4642.	0.125000	580.	4062.
2008	3.50	6491.	0.174987	1136.	5355.
2007	4.50	11865.	0.224931	2669.	9196.
2006	5.50	6913.	0.274721	1899.	5014.
2005	6.50	4071.	0.324181	1320.	2751.
2004	7.50	5809.	0.373006	2167.	3642.
2003	8.50	4435.	0.420801	1866.	2569.
2002	9.50	0.	0.467120	0.	0.
2001	10.50	22067.	0.511508	11287.	10780.
2000	11.50	6399.	0.553568	3542.	2857.
1999	12.50	3509.	0.592993	2081.	1428.
1998	13.50	14708.	0.629600	9260.	5448.
1997	14.50	18026.	0.663316	11957.	6069.
1996	15.50	58320.	0.694172	40484.	17836.
1995	16.50	10455.	0.722284	7551.	2904.
1994	17.50	34746.	0.747821	25984.	8762.
1993	18.50	0.	0.770983	0.	0.
1992	19.50	0.	0.791987	0.	0.
1991	20.50	6535.	0.811056	5300.	1235.
1990	21.50	3624.	0.828390	3002.	622.
1989	22.50	0.	0.844188	0.	0.
1988	23.50	6253.	0.858629	5369.	884.
1987	24.50	4914.	0.871866	4284.	630.
1986	25.50	8189.	0.884041	7239.	950.
1985	26.50	0.	0.895279	0.	0.
1984	27.50	7196.	0.905684	6517.	679.
1983	28.50	0.	0.915336	0.	0.
1982	29.50	6122.	0.924321	5659.	463.
1981	30.50	0.	0.932692	0.	0.
1980	31.50	0.	0.940513	0.	0.
1979	32.50	1322.	0.947743	1253.	69.
1978	33.50	3068.	0.954515	2928.	140.
1977	34.50	0.	0.961301	0.	0.
1976	35.50	1426.	0.966176	1378.	48.
1975	36.50	0.	0.975000	0.	0.
1974	37.50	928.	1.000000	928.	0.
1973	38.50	1659.	1.000000	1659.	0.
1972	39.50	0.	1.000000	0.	0.
1971	40.50	0.	1.000000	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204. Trailers & Other

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 20.0 YRS CURVE: IOWA S3 O.C. SALVAGE %: 20.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
	1970	41.50	0.	1.000000	0.	0.
	1969	42.50	1397.	1.000000	1397.	0.
	1968	43.50	1716.	1.000000	1716.	0.
	1967	44.50	1446.	1.000000	1446.	0.
SUBTOTAL :				0.643641	174019.	96347.
NET SALVAGE: 20.0%					-34804.	34804.
TOTAL :			270366.	0.514913	139215.	131151.

WEIGHTED AGE: 15.9 YEARS
REMAINING LIFE: 7.1 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204. Trailers & Other

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 20.0 YRS CURVE: IOWA S3 O.C. SALVAGE %: 20.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.050000	0.
2010	1.50 - 2.50	2115.	0.050000	106.
2009	2.50 - 3.50	4642.	0.050000	232.
2008	3.50 - 4.50	6491.	0.050000	325.
2007	4.50 - 5.50	11865.	0.050000	593.
2006	5.50 - 6.50	6913.	0.050000	346.
2005	6.50 - 7.50	4071.	0.050000	204.
2004	7.50 - 8.50	5809.	0.050000	290.
2003	8.50 - 9.50	4435.	0.050000	222.
2002	9.50 - 10.50	0.	0.050000	0.
2001	10.50 - 11.50	22067.	0.050000	1103.
2000	11.50 - 12.50	6399.	0.050000	320.
1999	12.50 - 13.50	3509.	0.050000	175.
1998	13.50 - 14.50	14708.	0.050000	735.
1997	14.50 - 15.50	18026.	0.050000	901.
1996	15.50 - 16.50	58320.	0.050000	2916.
1995	16.50 - 17.50	10455.	0.050000	523.
1994	17.50 - 18.50	34746.	0.050000	1737.
1993	18.50 - 19.50	0.	0.050000	0.
1992	19.50 - 20.50	0.	0.050000	0.
1991	20.50 - 21.50	6535.	0.050000	327.
1990	21.50 - 22.50	3624.	0.050000	181.
1989	22.50 - 23.50	0.	0.050000	0.
1988	23.50 - 24.50	6253.	0.050000	313.
1987	24.50 - 25.50	4914.	0.050000	246.
1986	25.50 - 26.50	8189.	0.050000	409.
1985	26.50 - 27.50	0.	0.050000	0.
1984	27.50 - 28.50	7196.	0.050000	360.
1983	28.50 - 29.50	0.	0.050000	0.
1982	29.50 - 30.50	6122.	0.050000	306.
1981	30.50 - 31.50	0.	0.050000	0.
1980	31.50 - 32.50	0.	0.050000	0.
1979	32.50 - 33.50	1322.	0.050000	66.
1978	33.50 - 34.50	3068.	0.050000	153.
1977	34.50 - 35.50	0.	0.050000	0.
1976	35.50 - 36.50	1426.	0.050000	71.
1975	36.50 - 37.50	0.	0.050000	0.
1974	37.50 - 38.50	928.	0.050000	46.
1973	38.50 - 39.50	1659.	0.050000	83.
1972	39.50 - 40.50	0.	0.050000	0.
1971	40.50 - 41.50	0.	0.050000	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204. Trailers & Other

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 20.0 YRS CURVE: IOWA S3 O.C. SALVAGE %: 20.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	0.	0.050000	0.
1969	42.50 - 43.50	1397.	0.050000	70.
1968	43.50 - 44.50	1716.	0.050000	86.
1967	44.50 - 45.50	1446.	0.050000	72.
SUBTOTAL :		270366.	0.050000	13518.
NET SALVAGE: 20.0 %				-2704.
TOTAL :		270366.	0.040000	10815.

MONTHLY RATE: 0.003333

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204. Trailers & Other

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 20.0 YRS CURVE: IOWA S3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	0.	19.5	0.
2010	1.50	2115.	18.5	39127.
2009	2.50	4642.	17.5	81235.
2008	3.50	6491.	16.5	107103.
2007	4.50	11865.	15.5	183924.
2006	5.50	6913.	14.5	100277.
2005	6.50	4071.	13.5	55025.
2004	7.50	5809.	12.5	72844.
2003	8.50	4435.	11.6	51375.
2002	9.50	0.	10.7	0.
2001	10.50	22067.	9.8	215591.
2000	11.50	6399.	8.9	57134.
1999	12.50	3509.	8.1	28564.
1998	13.50	14708.	7.4	108957.
1997	14.50	18026.	6.7	121381.
1996	15.50	58320.	6.1	356717.
1995	16.50	10455.	5.6	58070.
1994	17.50	34746.	5.0	175244.
1993	18.50	0.	4.6	0.
1992	19.50	0.	4.2	0.
1991	20.50	6535.	3.8	24695.
1990	21.50	3624.	3.4	12438.
1989	22.50	0.	3.1	0.
1988	23.50	6253.	2.8	17680.
1987	24.50	4914.	2.6	12593.
1986	25.50	8189.	2.3	18992.
1985	26.50	0.	2.1	0.
1984	27.50	7196.	1.9	13574.
1983	28.50	0.	1.7	0.
1982	29.50	6122.	1.5	9266.
1981	30.50	0.	1.3	0.
1980	31.50	0.	1.2	0.
1979	32.50	1322.	1.0	1382.
1978	33.50	3068.	0.9	2791.
1977	34.50	0.	0.8	0.
1976	35.50	1426.	0.7	965.
1975	36.50	0.	0.5	0.
1974	37.50	928.	0.0	0.
1973	38.50	1659.	0.0	0.
1972	39.50	0.	0.0	0.
1971	40.50	0.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204. Trailers & Other

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 20.0 YRS CURVE: IOWA S3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	0.	0.0	0.
1969	42.50	1397.	0.0	0.
1968	43.50	1716.	0.0	0.
1967	44.50	1446.	0.0	0.
TOTAL:		270366.	7.1	1926946.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204. Trailers & Other

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 20.0 YEARS CURVE: IOWA S3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0250	100.00000	0.00000	50.00000	0.050000	2.50000	2.50000	0.025000
1.50	0.0750	100.00000	0.00000	100.00000	0.050000	5.00000	7.50000	0.075000
2.50	0.1250	100.00000	0.00000	100.00000	0.050000	5.00000	12.50000	0.125000
3.50	0.1750	99.99850	0.00150	99.99925	0.050000	4.99996	17.49846	0.174987
4.50	0.2250	99.99150	0.00700	99.99500	0.050000	4.99975	22.49121	0.224931
5.50	0.2750	99.96350	0.02800	99.97750	0.050000	4.99887	27.46209	0.274721
6.50	0.3250	99.88650	0.07700	99.92500	0.050000	4.99625	32.38134	0.324181
7.50	0.3750	99.70650	0.18000	99.79650	0.050000	4.98982	37.19116	0.373006
8.50	0.4250	99.34250	0.36400	99.52450	0.050000	4.97623	41.80339	0.420801
9.50	0.4750	98.68700	0.65550	99.01475	0.050000	4.95074	46.09862	0.467120
10.50	0.5250	97.60850	1.07850	98.14775	0.050000	4.90739	49.92751	0.511508
11.50	0.5750	95.96450	1.64400	96.78650	0.050000	4.83932	53.12283	0.553568
12.50	0.6250	93.61550	2.34900	94.79000	0.050000	4.73950	55.51334	0.592993
13.50	0.6750	90.44450	3.17100	92.03000	0.050000	4.60150	56.94384	0.629600
14.50	0.7250	86.37250	4.07200	88.40850	0.050000	4.42043	57.29226	0.663316
15.50	0.7750	81.37450	4.99800	83.87350	0.050000	4.19368	56.48794	0.694172
16.50	0.8250	75.49050	5.88400	78.43250	0.050000	3.92163	54.52556	0.722284
17.50	0.8750	68.82800	6.66250	72.15925	0.050000	3.60796	51.47103	0.747821
18.50	0.9250	61.55600	7.27200	65.19200	0.050000	3.25960	47.45862	0.770983
19.50	0.9750	53.89600	7.66000	57.72600	0.050000	2.88630	42.68492	0.791987
20.50	1.0250	46.10400	7.79200	50.00000	0.050000	2.50000	37.39293	0.811056
21.50	1.0750	38.44400	7.66000	42.27400	0.050000	2.11370	31.84663	0.828390
22.50	1.1250	31.17200	7.27200	34.80800	0.050000	1.74040	26.31502	0.844188
23.50	1.1750	24.50950	6.66250	27.84075	0.050000	1.39204	21.04456	0.858629
24.50	1.2250	18.62550	5.88400	21.56750	0.050000	1.07837	16.23894	0.871866
25.50	1.2750	13.62750	4.99800	16.12650	0.050000	0.80633	12.04726	0.884041
26.50	1.3250	9.55550	4.07200	11.59150	0.050000	0.57958	8.55484	0.895279
27.50	1.3750	6.38450	3.17100	7.97000	0.050000	0.39850	5.78234	0.905684
28.50	1.4250	4.03550	2.34900	5.21000	0.050000	0.26050	3.69384	0.915336
29.50	1.4750	2.39150	1.64400	3.21350	0.050000	0.16068	2.21051	0.924321
30.50	1.5250	1.31300	1.07850	1.85225	0.050000	0.09261	1.22462	0.932692
31.50	1.5750	0.65750	0.65550	0.98525	0.050000	0.04926	0.61839	0.940513
32.50	1.6250	0.29350	0.36400	0.47550	0.050000	0.02377	0.27816	0.947743
33.50	1.6750	0.11350	0.18000	0.20350	0.050000	0.01018	0.10834	0.954515
34.50	1.7250	0.03650	0.07700	0.07500	0.050000	0.00375	0.03509	0.961301
35.50	1.7750	0.00850	0.02800	0.02250	0.050000	0.00113	0.00821	0.966176
36.50	1.8250	0.00150	0.00700	0.00500	0.050000	0.00025	0.00146	0.975000
37.50	1.8750	0.00000	0.00150	0.00075	0.050000	0.00004	0.00000	1.000000
		1999.99999	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	2115.	0.	0.	0.	0.	0.	0.	0.	0
2009	4642.	0.	0.	0.	0.	0.	0.	0.	0
2008	6491.	0.	0.	0.	0.	0.	0.	0.	0
2007	11865.	0.	0.	0.	0.	0.	0.	0.	0
2006	6913.	0.	0.	0.	0.	0.	0.	0.	0
2005	4071.	0.	0.	0.	0.	0.	0.	0.	0
2004	5809.	0.	0.	0.	0.	0.	0.	0.	0
2003	4435.	0.	0.	0.	0.	0.	0.	0.	0
2002	0.	0.	0.	0.	0.	1137.	0.	0.	0
2001	22067.	0.	0.	0.	0.	0.	0.	0.	0
2000	6399.	0.	0.	0.	0.	0.	0.	0.	0
1999	3509.	0.	0.	0.	0.	0.	0.	0.	0
1998	14708.	0.	0.	0.	0.	0.	2983.	0.	0
1997	18026.	0.	0.	0.	0.	0.	0.	0.	0
1996	58320.	0.	0.	0.	0.	0.	0.	0.	0
1995	10455.	0.	0.	0.	0.	0.	0.	0.	0
1994	34746.	0.	0.	0.	0.	0.	0.	0.	0
1993	0.	0.	0.	0.	0.	0.	0.	899.	0
1992	0.	0.	0.	0.	0.	0.	0.	0.	0
1991	6535.	0.	0.	0.	0.	0.	0.	5162.	0
1990	3624.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	6253.	0.	0.	6739.	13648.	0.	860.	0.	0
1987	4914.	0.	0.	0.	0.	0.	0.	0.	0
1986	8189.	0.	0.	0.	0.	0.	6093.	0.	0
1985	0.	0.	0.	0.	0.	0.	0.	0.	0
1984	7196.	0.	0.	0.	0.	0.	0.	0.	0
1983	0.	0.	0.	0.	0.	0.	0.	0.	0
1982	6122.	0.	0.	0.	0.	0.	0.	0.	0
1981	0.	0.	0.	0.	0.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	1322.	0.	0.	0.	0.	0.	0.	0.	0
1978	3068.	0.	0.	0.	1762.	0.	0.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	1967
1976	1426.	0.	0.	0.	0.	0.	0.	0.	0
1975	0.	0.	0.	0.	0.	0.	0.	1664.	0
1974	928.	0.	0.	0.	0.	0.	0.	0.	0
1973	1659.	0.	0.	0.	0.	0.	0.	0.	0
1972	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	1397.	0.	0.	0.	0.	0.	0.	0.	0
1968	1716.	0.	0.	0.	0.	0.	0.	0.	0
1967	1446.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	270366.	0.	0.	6739.	15410.	1137.	9936.	7725.	1967

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	2115.	0.	0.	0.	0.	0.	0.	0.	0
2009	4642.	0.	0.	0.	0.	0.	0.	0.	0
2008	6491.	0.	0.	0.	0.	0.	0.	0.	0
2007	11865.	0.	0.	0.	0.	0.	0.	0.	0
2006	6913.	0.	0.	0.	0.	0.	0.	0.	0
2005	4071.	0.	0.	0.	0.	0.	0.	0.	0
2004	5809.	0.	0.	0.	0.	0.	0.	0.	0
2003	4435.	0.	0.	0.	0.	0.	0.	0.	0
2002	0.	0.	0.	0.	0.	0.	0.	0.	0
2001	22067.	0.	0.	0.	0.	0.	0.	0.	0
2000	6399.	0.	0.	3355.	0.	0.	0.	0.	0
1999	3509.	0.	0.	0.	0.	0.	0.	0.	0
1998	14708.	0.	0.	0.	0.	0.	0.	0.	0
1997	18026.	0.	0.	0.	0.	4017.	0.	0.	0
1996	58320.	0.	0.	0.	0.	0.	0.	0.	0
1995	10455.	0.	0.	0.	0.	0.	0.	0.	0
1994	34746.	0.	0.	3066.	0.	0.	0.	0.	0
1993	0.	0.	0.	0.	0.	0.	0.	0.	0
1992	0.	0.	0.	0.	0.	0.	0.	0.	0
1991	6535.	0.	2500.	0.	1166.	0.	0.	0.	0
1990	3624.	0.	0.	0.	5130.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	6355.	0.	0.	0
1988	6253.	0.	0.	0.	0.	0.	0.	2218.	0
1987	4914.	0.	0.	0.	0.	0.	2370.	0.	0
1986	8189.	0.	0.	2727.	0.	0.	0.	0.	0
1985	0.	0.	0.	0.	0.	0.	0.	0.	0
1984	7196.	0.	0.	2528.	0.	0.	0.	0.	0
1983	0.	0.	0.	0.	2727.	0.	0.	0.	0
1982	6122.	0.	0.	1302.	1403.	0.	123.	0.	0
1981	0.	0.	0.	0.	0.	0.	1760.	0.	1361
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	1322.	0.	0.	0.	0.	0.	0.	0.	0
1978	3068.	0.	0.	0.	0.	0.	2145.	0.	0
1977	0.	0.	2920.	0.	0.	0.	0.	0.	0
1976	1426.	0.	0.	0.	0.	0.	0.	0.	0
1975	0.	0.	0.	0.	0.	7907.	0.	0.	0
1974	928.	0.	0.	0.	0.	0.	0.	0.	0
1973	1659.	0.	0.	0.	0.	525.	0.	1608.	0
1972	0.	0.	0.	0.	0.	2921.	0.	392.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	1397.	0.	0.	0.	0.	0.	0.	0.	0
1968	1716.	0.	1055.	0.	0.	0.	0.	0.	0
1967	1446.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	270366.	0.	6475.	12978.	10426.	21725.	6398.	4218.	1361

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	2115.	0.	0.	0.	0.	0.	0.	0.	0
2009	4642.	0.	0.	0.	0.	0.	0.	0.	0
2008	6491.	0.	0.	0.	0.	0.	0.	0.	0
2007	11865.	0.	0.	0.	0.	0.	0.	0.	0
2006	6913.	0.	0.	0.	0.	0.	0.	0.	0
2005	4071.	0.	0.	0.	0.	0.	0.	0.	0
2004	5809.	0.	0.	0.	0.	0.	0.	0.	0
2003	4435.	0.	0.	0.	0.	0.	0.	0.	0
2002	0.	0.	0.	0.	0.	0.	0.	0.	0
2001	22067.	0.	0.	0.	0.	0.	0.	0.	0
2000	6399.	0.	0.	0.	0.	0.	0.	0.	0
1999	3509.	0.	0.	0.	0.	0.	0.	0.	0
1998	14708.	0.	0.	0.	0.	0.	0.	0.	0
1997	18026.	0.	0.	0.	0.	0.	0.	0.	0
1996	58320.	0.	0.	0.	0.	0.	0.	0.	0
1995	10455.	0.	0.	0.	0.	0.	0.	0.	0
1994	34746.	0.	0.	0.	0.	0.	0.	0.	0
1993	0.	0.	0.	0.	0.	0.	0.	0.	0
1992	0.	0.	0.	0.	0.	0.	0.	0.	0
1991	6535.	0.	0.	0.	0.	0.	0.	0.	0
1990	3624.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	6253.	899.	0.	0.	0.	0.	0.	0.	0
1987	4914.	0.	0.	0.	0.	0.	0.	0.	0
1986	8189.	0.	0.	0.	2458.	0.	0.	0.	1662
1985	0.	0.	1656.	0.	0.	0.	0.	0.	0
1984	7196.	0.	0.	0.	0.	0.	0.	0.	0
1983	0.	0.	0.	0.	0.	0.	0.	0.	0
1982	6122.	0.	0.	0.	0.	0.	0.	0.	0
1981	0.	0.	0.	0.	0.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	1322.	0.	0.	0.	0.	0.	0.	0.	0
1978	3068.	0.	0.	0.	0.	0.	0.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	0
1976	1426.	0.	0.	0.	359.	868.	0.	0.	0
1975	0.	0.	0.	0.	0.	0.	0.	0.	0
1974	928.	0.	0.	0.	233.	0.	0.	0.	0
1973	1659.	0.	0.	0.	0.	0.	0.	0.	0
1972	0.	0.	0.	0.	0.	3041.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	1594.	0.	0.	0
1969	1397.	0.	0.	0.	0.	0.	0.	0.	0
1968	1716.	0.	0.	0.	0.	0.	0.	0.	0
1967	1446.	0.	0.	0.	0.	6193.	0.	0.	0
TOTAL	270366.	899.	1656.	0.	3050.	11696.	0.	0.	1662

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984
2011	0.	0.	0.	0.	0.
2010	2115.	0.	0.	0.	0.
2009	4642.	0.	0.	0.	0.
2008	6491.	0.	0.	0.	0.
2007	11865.	0.	0.	0.	0.
2006	6913.	0.	0.	0.	0.
2005	4071.	0.	0.	0.	0.
2004	5809.	0.	0.	0.	0.
2003	4435.	0.	0.	0.	0.
2002	0.	0.	0.	0.	0.
2001	22067.	0.	0.	0.	0.
2000	6399.	0.	0.	0.	0.
1999	3509.	0.	0.	0.	0.
1998	14708.	0.	0.	0.	0.
1997	18026.	0.	0.	0.	0.
1996	58320.	0.	0.	0.	0.
1995	10455.	0.	0.	0.	0.
1994	34746.	0.	0.	0.	0.
1993	0.	0.	0.	0.	0.
1992	0.	0.	0.	0.	0.
1991	6535.	0.	0.	0.	0.
1990	3624.	0.	0.	0.	0.
1989	0.	0.	0.	0.	0.
1988	6253.	0.	0.	0.	0.
1987	4914.	4879.	0.	0.	0.
1986	8189.	0.	0.	0.	0.
1985	0.	0.	0.	0.	0.
1984	7196.	0.	0.	0.	0.
1983	0.	0.	0.	0.	0.
1982	6122.	0.	0.	0.	2494.
1981	0.	0.	0.	0.	0.
1980	0.	0.	0.	0.	0.
1979	1322.	0.	0.	0.	0.
1978	3068.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.
1976	1426.	0.	868.	0.	0.
1975	0.	0.	0.	0.	0.
1974	928.	0.	0.	0.	0.
1973	1659.	0.	0.	2027.	0.
1972	0.	0.	0.	1916.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984
1971	0.	0.	0.	0.	0.
1970	0.	0.	0.	0.	0.
1969	1397.	0.	0.	0.	0.
1968	1716.	0.	0.	0.	0.
1967	1446.	0.	0.	0.	0.
TOTAL	270366.	4879.	868.	3943.	2494.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1984 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	335790.	4879.	0.01452991	0.98547009	1.00000000
0.5	333637.	3355.	0.01005584	0.98994416	0.98547009
1.5	339611.	8173.	0.02406577	0.97593423	0.97556036
2.5	329917.	0.	0.00000000	1.00000000	0.95208275
3.5	323426.	0.	0.00000000	1.00000000	0.95208275
4.5	312883.	1137.	0.00363395	0.99636605	0.95208275
5.5	311808.	2458.	0.00788306	0.99211694	0.94862293
6.5	310166.	3965.	0.01278348	0.98721652	0.94114488
7.5	303913.	2983.	0.00981531	0.99018469	0.92911378
8.5	306067.	5040.	0.01646698	0.98353302	0.91999424
9.5	302187.	12353.	0.04087866	0.95912134	0.90484471
10.5	273586.	4870.	0.01780062	0.98219938	0.86785587
11.5	270587.	2926.	0.01081353	0.98918647	0.85240750
12.5	264152.	1916.	0.00725340	0.99274660	0.84318997
13.5	249122.	5162.	0.02072077	0.97927923	0.83707397
14.5	227331.	4956.	0.02180081	0.97819919	0.81972915
15.5	166826.	482.	0.00288924	0.99711076	0.80185839
16.5	163528.	7015.	0.04289785	0.95710215	0.79954163
17.5	121768.	2496.	0.02049800	0.97950200	0.76524301
18.5	119272.	4343.	0.03641257	0.96358743	0.74955707
19.5	114928.	21886.	0.19043227	0.80956773	0.72226377
20.5	86507.	8333.	0.09632746	0.90367254	0.58472144
21.5	74551.	0.	0.00000000	1.00000000	0.52839670
22.5	74550.	0.	0.00000000	1.00000000	0.52839670
23.5	68297.	15708.	0.22999546	0.77000454	0.52839670
24.5	47675.	3312.	0.06947037	0.93052963	0.40686786
25.5	36175.	525.	0.01451279	0.98548721	0.37860260
26.5	35649.	4888.	0.13711465	0.86288535	0.37310802
27.5	23566.	0.	0.00000000	1.00000000	0.32194945
28.5	23565.	0.	0.00000000	1.00000000	0.32194945
29.5	17444.	3426.	0.19639991	0.80360009	0.32194945
30.5	14018.	0.	0.00000000	1.00000000	0.25871861
31.5	14017.	0.	0.00000000	1.00000000	0.25871861
32.5	12695.	0.	0.00000000	1.00000000	0.25871861
33.5	9628.	1055.	0.10957624	0.89042376	0.25871861
34.5	8572.	0.	0.00000000	1.00000000	0.23036919
35.5	7147.	0.	0.00000000	1.00000000	0.23036919
36.5	7146.	0.	0.00000000	1.00000000	0.23036919
37.5	6218.	0.	0.00000000	1.00000000	0.23036919
38.5	4560.	0.	0.00000000	1.00000000	0.23036919

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39204 Trailers & Other

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1984 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	4560.	0.	0.00000000	1.00000000	0.23036919
40.5	4560.	0.	0.00000000	1.00000000	0.23036919
41.5	4559.	0.	0.00000000	1.00000000	0.23036919
42.5	3162.	0.	0.00000000	1.00000000	0.23036919
43.5	1446.	0.	0.00000000	1.00000000	0.23036919
TOTAL		137642.			25.15262428

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39204 Trailers & Other

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 26.472940 FIT INDEX 0.005534 VARIANCE 0.258569

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	335790.	4879.	22.	0.01452991	0.00006453	1.00000000	1.00000000	0.00	0.00000000
0.5	333637.	3355.	420.	0.01005584	0.00125872	0.98547009	0.99993547	1.89	0.01882333
1.5	339611.	8173.	1195.	0.02406577	0.00351805	0.97556036	0.99867683	5.67	0.05538495
2.5	329917.	0.	1906.	0.00000000	0.00577737	0.95208275	0.99516344	9.44	0.08989110
3.5	323426.	0.	2599.	0.00000000	0.00803670	0.95208275	0.98941401	13.22	0.12248667
4.5	312883.	1137.	3221.	0.00363395	0.01029603	0.95208275	0.98146238	17.00	0.15330467
5.5	311808.	2458.	3915.	0.00788306	0.01255535	0.94862293	0.97135722	20.78	0.18246729
6.5	310166.	3965.	4595.	0.01278348	0.01481468	0.94114488	0.95916149	24.55	0.21008694
7.5	303913.	2983.	5189.	0.00981531	0.01707401	0.92911378	0.94495182	28.33	0.23626711
8.5	306067.	5040.	5917.	0.01646698	0.01933333	0.91999424	0.92881771	32.11	0.26110313
9.5	302187.	12353.	6525.	0.04087866	0.02159266	0.90484471	0.91086056	35.89	0.28468294
10.5	273586.	4870.	6526.	0.01780062	0.02385199	0.86785587	0.89119266	39.66	0.30708769
11.5	270587.	2926.	7065.	0.01081353	0.02611131	0.85240750	0.86993595	43.44	0.32839243
12.5	264152.	1916.	7494.	0.00725340	0.02837064	0.84318997	0.84722078	47.22	0.34866651
13.5	249122.	5162.	7631.	0.02072077	0.03062996	0.83707397	0.82318459	51.00	0.36797410
14.5	227331.	4956.	7477.	0.02180081	0.03288929	0.81972915	0.79797047	54.77	0.38637470
15.5	166826.	482.	5864.	0.00288924	0.03514862	0.80185839	0.77172579	58.55	0.40392341
16.5	163528.	7015.	6117.	0.04289785	0.03740794	0.79954163	0.74460069	62.33	0.42067137
17.5	121768.	2496.	4830.	0.02049800	0.03966727	0.76524301	0.71674671	66.11	0.43666607
18.5	119272.	4343.	5001.	0.03641257	0.04192660	0.74955707	0.68831533	69.88	0.45195169
19.5	114928.	21886.	5078.	0.19043227	0.04418592	0.72226377	0.65945661	73.66	0.46656930
20.5	86507.	8333.	4018.	0.09632746	0.04644525	0.58472144	0.63031791	77.44	0.48055709
21.5	74551.	0.	3631.	0.00000000	0.04870458	0.52839670	0.60104264	81.22	0.49395069
22.5	74550.	0.	3799.	0.00000000	0.05096390	0.52839670	0.57176911	84.99	0.50678332
23.5	68297.	15708.	3635.	0.22999546	0.05322323	0.52839670	0.54262953	88.77	0.51908592
24.5	47675.	3312.	2645.	0.06947037	0.05548255	0.40686786	0.51374903	92.55	0.53088743
25.5	36175.	525.	2089.	0.01451279	0.05774188	0.37860260	0.48524492	96.32	0.54221486
26.5	35649.	4888.	2139.	0.13711465	0.06000121	0.37310802	0.45722597	100.10	0.55309346
27.5	23566.	0.	1467.	0.00000000	0.06226053	0.32194945	0.42979186	103.88	0.56354690
28.5	23565.	0.	1520.	0.00000000	0.06451986	0.32194945	0.40303279	107.66	0.57359734
29.5	17444.	3426.	1165.	0.19639991	0.06677919	0.32194945	0.37702917	111.43	0.58326551
30.5	14018.	0.	968.	0.00000000	0.06903851	0.25871861	0.35185147	115.21	0.59257085
31.5	14017.	0.	999.	0.00000000	0.07129784	0.25871861	0.32756016	118.99	0.60153167

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39204 Trailers & Other

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 26.472940 FIT INDEX 0.005534 VARIANCE 0.258569

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	12695.	0.	934.	0.00000000	0.07355717	0.25871861	0.30420583	122.77	0.61016509
33.5	9628.	1055.	730.	0.10957624	0.07581649	0.25871861	0.28182931	126.54	0.61848723
34.5	8572.	0.	669.	0.00000000	0.07807582	0.23036919	0.26046200	130.32	0.62651324
35.5	7147.	0.	574.	0.00000000	0.08033515	0.23036919	0.24012622	134.10	0.63425737
36.5	7146.	0.	590.	0.00000000	0.08259447	0.23036919	0.22083564	137.88	0.64173305
37.5	6218.	0.	528.	0.00000000	0.08485380	0.23036919	0.20259584	141.65	0.64895293
38.5	4560.	0.	397.	0.00000000	0.08711312	0.23036919	0.18540481	145.43	0.65592896
39.5	4560.	0.	408.	0.00000000	0.08937245	0.23036919	0.16925362	149.21	0.66267239
40.5	4560.	0.	418.	0.00000000	0.09163178	0.23036919	0.15412701	152.99	0.66919385
41.5	4559.	0.	428.	0.00000000	0.09389110	0.23036919	0.14000408	156.76	0.67550340
42.5	3162.	0.	304.	0.00000000	0.09615043	0.23036919	0.12685894	160.54	0.68161053
43.5	1446.	0.	142.	0.00000000	0.09840976	0.23036919	0.11466140	164.32	0.68752426
TOTAL (EXCEPT AGE 0)	132763.	132763.							

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39204 Trailers & Other

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 26.472940 FIT INDEX 0.005534 VARIANCE 0.258569

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
44.5					0.10066908		0.10337760	168.10	0.69325313
45.5					0.10292841		0.09297067	171.87	0.69880518
46.5					0.10518774		0.08340135	175.65	0.70418812
47.5					0.10744706		0.07462855	179.43	0.70940925
48.5					0.10970639		0.06660993	183.21	0.71447552
49.5					0.11196571		0.05930240	186.98	0.71939358
50.5					0.11422504		0.05266256	190.76	0.72416975
51.5					0.11648437		0.04664718	194.54	0.72881009
52.5					0.11874369		0.04121351	198.32	0.73332046
53.5					0.12100302		0.03631967	202.09	0.73770644
54.5					0.12326235		0.03192488	205.87	0.74197347
55.5					0.12552167		0.02798974	209.65	0.74612680
56.5					0.12778100		0.02447642	213.43	0.75017159
57.5					0.13004033		0.02134880	217.20	0.75411289
58.5					0.13229965		0.01857260	220.98	0.75795570
59.5					0.13455898		0.01611545	224.76	0.76170499
60.5					0.13681831		0.01394697	228.54	0.76536584
61.5					0.13907763		0.01203877	232.31	0.76894337
62.5					0.14133696		0.01036445	236.09	0.77244290
63.5					0.14359628		0.00889957	239.87	0.77587002
64.5					0.14585561		0.00762162	243.65	0.77923064
65.5					0.14811494		0.00650997	247.42	0.78253121
66.5					0.15037426		0.00554574	251.20	0.78577878
67.5					0.15263359		0.00471181	254.98	0.78898126
68.5					0.15489292		0.00399263	258.75	0.79214760
69.5					0.15715224		0.00337420	262.53	0.79528809
70.5					0.15941157		0.00284393	266.31	0.79841478
71.5					0.16167090		0.00239058	270.09	0.80154183
72.5					0.16393022		0.00200409	273.86	0.80468618
73.5					0.16618955		0.00167556	277.64	0.80786820
74.5					0.16844888		0.00139710	281.42	0.81111266
75.5					0.17070820		0.00116176	285.20	0.81444984
76.5					0.17296753		0.00096344	288.97	0.81791699

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39204 Trailers & Other

EXPERIENCE BAND 1984 TO 2011 DEGREE 1 AVG LIFE 26.472940 FIT INDEX 0.005534 VARIANCE 0.258569

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
77.5					0.17522685		0.00079679	292.75	0.82156024
78.5					0.17748618		0.00065717	296.53	0.82543699
79.5					0.17974551		0.00054054	300.31	0.82961891
80.5					0.18200483		0.00044338	304.08	0.83419589
81.5					0.18426416		0.00036268	307.86	0.83928113
82.5					0.18652349		0.00029585	311.64	0.84501762
83.5					0.18878281		0.00024067	315.42	0.85158653
84.5					0.19104214		0.00019523	319.19	0.85921819
85.5					0.19330147		0.00015794	322.97	0.86820619
86.5					0.19556079		0.00012741	326.75	0.87892588
87.5					0.19782012		0.00010249	330.53	0.89185846
88.5					0.20007944		0.00008222	334.30	0.90762248
89.5					0.20233877		0.00006577	338.08	0.92701520
90.5					0.20459810		0.00005246	341.86	0.95106695
91.5							0.00004173	345.64	0.98111279

EQUIVALENT H CURVE IS 1.67

EQUIVALENT L CURVE IS 1.00

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS -0.50

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39204 Trailers & Other

EQUATIONS OF FITTED CURVES

STRAIGHT LINE YEST(I) = 0.12905780E-03 0.22593264E-02 (X)

$$\text{QUADRATIC} \quad YEST(I) = -0.38789160E-02 \; 0.31477609E-02 \; (X) \; -0.31758031E-04 \; (X^2)$$

$$\text{CUBIC} \quad YEST(I) = 0.18277002E-01 \; -0.54271952E-02 \; (X) \; 0.64278308E-03 \; (X^2) \; -0.13278266E-04 \; (X^3)$$

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39204 Trailers & Other

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	46.61	0.003943	470.96	0.42	0.00	SC	0.50
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	21.54	0.013753	294.87	2.33	2.00	0.50	1.50
1988	1992	21.21	0.011378	308.79	2.17	2.00	0.50	1.50
1989	1993	22.03	0.010550	297.33	2.31	2.00	0.50	1.50
1990	1994	22.27	0.010023	298.59	2.28	2.00	0.50	1.50
1991	1995	22.84	0.009794	304.26	2.21	2.00	0.50	1.50
1992	1996	83.71	0.002583	476.07	-0.17	0.00	SC	0.50
1993	1997	42.24	0.003767	361.01	1.48	1.00	-0.50	0.50
1994	1998	31.80	0.004618	350.60	1.60	1.00	-0.50	0.50
1995	1999	21.07	0.010846	329.91	1.85	1.50	0.00	1.00
1996	2000	19.49	0.012039	336.03	1.77	1.50	0.00	1.00
1997	2001	17.96	0.012053	359.21	1.48	1.00	-0.50	0.50
1998	2002	17.98	0.011394	347.60	1.64	1.00	-0.50	0.50
1999	2003	19.48	0.011789	351.71	1.58	1.00	-0.50	0.50
2000	2004	25.86	0.006843	361.53	1.44	1.00	-0.50	0.50
2001	2005	27.29	0.006388	342.59	1.69	1.00	-0.50	0.50
2002	2006	27.79	0.007259	311.28	2.15	2.00	0.50	1.50
2003	2007	33.58	0.008063	335.01	1.80	1.50	0.00	1.00
2004	2008	26.16	0.011925	307.73	2.16	2.00	0.50	1.50
2005	2009	25.55	0.013097	315.09	2.09	2.00	0.50	1.00
2006	2010	28.65	0.012570	319.42	2.01	1.50	0.00	1.00
2007	2011	33.82	0.010172	314.88	2.06	2.00	0.50	1.00

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39204 Trailers & Other

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	33.82	0.010172	314.87	2.06	2.00	0.50	1.00
2006	2011	31.68	0.010893	326.67	1.90	1.50	0.00	1.00
2005	2011	30.64	0.010338	327.96	1.88	1.50	0.00	1.00
2004	2011	31.11	0.009174	319.87	1.99	1.50	0.00	1.00
2003	2011	32.19	0.008508	321.58	2.00	1.50	0.00	1.00
2002	2011	30.96	0.007780	314.93	2.07	2.00	0.50	1.00
2001	2011	29.88	0.007422	339.71	1.74	1.50	0.00	0.50
2000	2011	28.82	0.007097	348.76	1.61	1.00	-0.50	0.50
1999	2011	26.04	0.007263	351.40	1.60	1.00	-0.50	0.50
1998	2011	25.87	0.007091	349.78	1.62	1.00	-0.50	0.50
1997	2011	25.93	0.006802	349.06	1.64	1.00	-0.50	0.50
1996	2011	26.26	0.006497	344.61	1.65	1.00	-0.50	0.50
1995	2011	26.61	0.006102	347.64	1.65	1.00	-0.50	0.50
1994	2011	26.82	0.005965	348.60	1.63	1.00	-0.50	0.50
1993	2011	27.14	0.005769	344.52	1.65	1.00	-0.50	0.50
1992	2011	27.15	0.005549	348.02	1.61	1.00	-0.50	0.50
1991	2011	25.90	0.006110	337.80	1.76	1.50	0.00	1.00
1990	2011	26.14	0.006013	338.53	1.77	1.50	0.00	1.00
1989	2011	26.35	0.005914	335.91	1.77	1.50	0.00	1.00
1988	2011	26.46	0.005813	338.25	1.74	1.50	0.00	0.50
1987	2011	26.62	0.005657	340.03	1.75	1.50	0.00	0.50
1986	2011	26.68	0.005635	339.16	1.74	1.50	0.00	0.50
1985	2011	26.47	0.005535	341.88	1.73	1.00	-0.50	0.50
1984	2011	26.47	0.005534	345.64	1.67	1.00	-0.50	0.50

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39204 Trailers & Other

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	369.08	0.001743	107.97	3.54	4.00	2.00	3.00
1987	1991	21.01	0.012575	178.51	3.30	3.00	2.00	3.00
1988	1992	21.05	0.010452	187.62	3.06	3.00	2.00	2.50
1989	1993	22.02	0.009976	188.43	3.40	3.00	2.00	3.00
1990	1994	22.08	0.009785	201.58	3.05	3.00	2.00	2.50
1991	1995	22.42	0.009714	216.35	2.83	3.00	1.50	2.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	21.00	0.010927	269.06	2.06	2.00	0.50	1.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	19.41	0.011931	332.23	1.59	1.00	-0.50	0.50
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	26.63	0.006457	298.58	1.80	1.50	0.00	1.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39204 Trailers & Other

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39204 Trailers & Other

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	21.75	0.012095	140.26	4.27	4.00	3.00	4.00
1988	1992	21.49	0.010119	151.22	3.60	4.00	3.00	3.00
1989	1993	22.38	0.009915	158.60	4.10	4.00	3.00	4.00
1990	1994	22.21	0.009834	173.32	3.45	3.00	2.00	3.00
1991	1995	22.41	0.009827	198.59	2.96	3.00	1.50	2.50
1992	1996	42.15	0.002485	167.26	2.60	3.00	1.00	2.00
1993	1997	33.81	0.003828	190.77	2.57	3.00	1.00	2.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39204 Trailers & Other

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 392.04 - Trailers & Other
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	0	0	0	0	0	0	0
2009	6,739	0	0	800	12	800	12
2008	15,410	0	0	2,358	15	2,358	15
2007	1,137	150	13	0	0	150	13
2006	9,935	(114)	(1)	2,609	26	2,495	25
2005	7,725	(413)	(5)	1,000	13	587	8
2004	1,967	0	0	0	0	0	0
2003	0	0	0	0	0	0	0
2002	6,476	0	0	1,950	30	1,950	30
2001	12,978	0	0	3,300	25	3,300	25
2000	8,417	0	0	1,700	20	1,700	20
1999	21,724	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	1,361	0	0	0	0	0	0
1995	899	0	0	0	0	0	0
1994	1,656	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	3,050	0	0	2,350	77	2,350	77
1991	12,261	0	0	200	2	200	2
1990	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1988	2,321	0	0	0	0	0	0
1987	4,879	0	0	0	0	0	0
1986	868	(26)	(3)	0	0	(26)	(3)
1985	3,943	0	0	550	14	550	14
1984	2,494	0	0	0	0	0	0
1983	0	0	0	1,503	0	1,503	0
1982	0	0	0	0	0	0	0
	126,240	**(404)**	**(0)**	**18,320**	**15**	**17,917**	**14**

Peoples Gas System
Net Salvage Analysis
Account - 392.04 - Trailers & Other
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	33,221	36	0	5,767	17	5,803	17
2009	40,945	(377)	(1)	6,767	17	6,390	16
2008	36,174	(377)	(1)	5,967	16	5,590	15
2007	20,764	(377)	(2)	3,609	17	3,232	16
2006	26,104	(527)	(2)	5,559	21	5,032	19
2005	29,146	(413)	(1)	6,250	21	5,837	20
2004	29,838	0	0	6,950	23	6,950	23
2003	49,595	0	0	6,950	14	6,950	14
2002	49,595	0	0	6,950	14	6,950	14
2001	43,119	0	0	5,000	12	5,000	12
2000	31,502	0	0	1,700	5	1,700	5
1999	23,984	0	0	0	0	0	0
1998	3,916	0	0	0	0	0	0
1997	3,916	0	0	0	0	0	0
1996	6,966	0	0	2,350	34	2,350	34
1995	17,865	0	0	2,550	14	2,550	14
1994	16,967	0	0	2,550	15	2,550	15
1993	15,311	0	0	2,550	17	2,550	17
1992	17,632	0	0	2,550	14	2,550	14
1991	19,460	0	0	200	1	200	1
1990	8,068	(26)	(0)	0	0	(26)	(0)
1989	12,011	(26)	(0)	550	5	524	4
1988	14,506	(26)	(0)	550	4	524	4
1987	12,185	(26)	(0)	2,053	17	2,027	17
1986	7,306	(26)	(0)	2,053	28	2,027	28

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39205. Vehicles Over 1 Ton

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 12.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 10.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.041667	0.	0.
2010	1.50	8912.	0.125000	1114.	7798.
2009	2.50	0.	0.208333	0.	0.
2008	3.50	0.	0.291667	0.	0.
2007	4.50	281983.	0.374983	105739.	176244.
2006	5.50	364268.	0.458119	166878.	197390.
2005	6.50	10203.	0.540185	5512.	4691.
2004	7.50	0.	0.618839	0.	0.
2003	8.50	0.	0.690511	0.	0.
2002	9.50	48484.	0.751994	36460.	12024.
2001	10.50	151657.	0.802028	121633.	30024.
2000	11.50	53961.	0.841366	45401.	8560.
1999	12.50	0.	0.871780	0.	0.
1998	13.50	37462.	0.895259	33538.	3924.
1997	14.50	0.	0.913445	0.	0.
1996	15.50	0.	0.927616	0.	0.
1995	16.50	39347.	0.938714	36936.	2411.
1994	17.50	0.	0.947136	0.	0.
1993	18.50	31884.	0.952599	30373.	1511.
1992	19.50	75077.	0.958333	71949.	3128.
1991	20.50	0.	1.000000	0.	0.
1990	21.50	0.	1.000000	0.	0.
1989	22.50	0.	1.000000	0.	0.
1988	23.50	0.	1.000000	0.	0.
1987	24.50	32489.	1.000000	32489.	0.
1986	25.50	19370.	1.000000	19370.	0.
SUBTOTAL :			0.612408	707391.	447706.
NET SALVAGE: 10.0%				-70739.	70739.
TOTAL :		1155097.	0.551167	636652.	518445.

WEIGHTED AGE: 9.1 YEARS
REMAINING LIFE: 4.7 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39205. Vehicles Over 1 Ton

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 12.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 10.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.083333	0.
2010	1.50 - 2.50	8912.	0.083333	743.
2009	2.50 - 3.50	0.	0.083333	0.
2008	3.50 - 4.50	0.	0.083333	0.
2007	4.50 - 5.50	281983.	0.083333	23499.
2006	5.50 - 6.50	364268.	0.083333	30356.
2005	6.50 - 7.50	10203.	0.083333	850.
2004	7.50 - 8.50	0.	0.083333	0.
2003	8.50 - 9.50	0.	0.083333	0.
2002	9.50 - 10.50	48484.	0.083333	4040.
2001	10.50 - 11.50	151657.	0.083333	12638.
2000	11.50 - 12.50	53961.	0.083333	4497.
1999	12.50 - 13.50	0.	0.083333	0.
1998	13.50 - 14.50	37462.	0.083333	3122.
1997	14.50 - 15.50	0.	0.083333	0.
1996	15.50 - 16.50	0.	0.083333	0.
1995	16.50 - 17.50	39347.	0.083333	3279.
1994	17.50 - 18.50	0.	0.083333	0.
1993	18.50 - 19.50	31884.	0.083333	2657.
1992	19.50 - 20.50	75077.	0.083333	6256.
1991	20.50 - 21.50	0.	0.083333	0.
1990	21.50 - 22.50	0.	0.083333	0.
1989	22.50 - 23.50	0.	0.083333	0.
1988	23.50 - 24.50	0.	0.083333	0.
1987	24.50 - 25.50	32489.	0.083333	2707.
1986	25.50 - 26.50	19370.	0.083333	1614.
SUBTOTAL :		1155097.	0.083333	96258.
NET SALVAGE: 10.0 %				-9626.
TOTAL :		1155097.	0.075000	86632.

MONTHLY RATE: 0.006250

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39205. Vehicles Over 1 Ton

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 12.0 YRS CURVE: IOWA S4

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	0.	11.5	0.
2010	1.50	8912.	10.5	93576.
2009	2.50	0.	9.5	0.
2008	3.50	0.	8.5	0.
2007	4.50	281983.	7.5	2114929.
2006	5.50	364268.	6.5	2368678.
2005	6.50	10203.	5.5	56298.
2004	7.50	0.	4.6	0.
2003	8.50	0.	3.7	0.
2002	9.50	48484.	3.0	144292.
2001	10.50	151657.	2.4	360286.
2000	11.50	53961.	1.9	102720.
1999	12.50	0.	1.5	0.
1998	13.50	37462.	1.3	47085.
1997	14.50	0.	1.0	0.
1996	15.50	0.	0.9	0.
1995	16.50	39347.	0.7	28937.
1994	17.50	0.	0.6	0.
1993	18.50	31884.	0.6	18136.
1992	19.50	75077.	0.5	37539.
1991	20.50	0.	0.0	0.
1990	21.50	0.	0.0	0.
1989	22.50	0.	0.0	0.
1988	23.50	0.	0.0	0.
1987	24.50	32489.	0.0	0.
1986	25.50	19370.	0.0	0.
TOTAL:		1155097.	4.7	5372475.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39205. Vehicles Over 1 Ton

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 12.0 YEARS CURVE: IOWA S4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0417	100.00000	0.00000	50.00000	0.083333	4.16667	4.16667	0.041667
1.50	0.1250	100.00000	0.00000	100.00000	0.083333	8.33333	12.50000	0.125000
2.50	0.2083	100.00000	0.00000	100.00000	0.083333	8.33333	20.83333	0.208333
3.50	0.2917	100.00000	0.00000	100.00000	0.083333	8.33333	29.16667	0.291667
4.50	0.3750	99.99750	0.00250	99.99875	0.083333	8.33323	37.49740	0.374983
5.50	0.4583	99.96367	0.03383	99.98058	0.083333	8.33172	45.79528	0.458119
6.50	0.5417	99.71100	0.25267	99.83733	0.083333	8.31978	53.86239	0.540185
7.50	0.6250	98.60750	1.10350	99.15925	0.083333	8.26327	61.02216	0.618839
8.50	0.7083	95.33283	3.27467	96.97017	0.083333	8.08085	65.82834	0.690511
9.50	0.7917	88.14200	7.19083	91.73742	0.083333	7.64478	66.28229	0.751994
10.50	0.8750	75.89400	12.24800	82.01800	0.083333	6.83483	60.86913	0.802028
11.50	0.9583	59.22417	16.66983	67.55908	0.083333	5.62992	49.82922	0.841366
12.50	1.0417	40.77583	18.44834	50.00000	0.083333	4.16667	35.54755	0.871780
13.50	1.1250	24.10600	16.66983	32.44092	0.083333	2.70341	21.58112	0.895259
14.50	1.2083	11.85800	12.24800	17.98200	0.083333	1.49850	10.83162	0.913445
15.50	1.2917	4.66717	7.19083	8.26258	0.083333	0.68855	4.32934	0.927616
16.50	1.3750	1.39250	3.27467	3.02983	0.083333	0.25249	1.30716	0.938714
17.50	1.4583	0.28900	1.10350	0.84075	0.083333	0.07006	0.27372	0.947136
18.50	1.5417	0.03633	0.25267	0.16267	0.083333	0.01356	0.03461	0.952599
19.50	1.6250	0.00250	0.03383	0.01942	0.083333	0.00162	0.00240	0.958333
20.50	1.7083	0.00000	0.00250	0.00125	0.083333	0.00010	0.00000	1.000000
		1200.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39205 Vehicles Over 1 Ton

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	8912.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	0.	0.	0.	0.	0.	0.	0.	0.	0
2007	281983.	0.	0.	0.	0.	0.	0.	0.	0
2006	364268.	0.	0.	0.	0.	0.	0.	0.	0
2005	10203.	0.	0.	0.	0.	0.	0.	0.	0
2004	0.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	48484.	0.	49274.	24082.	44020.	0.	0.	0.	0
2001	151657.	0.	0.	0.	0.	0.	0.	0.	0
2000	53961.	0.	0.	66673.	0.	0.	0.	0.	0
1999	0.	0.	0.	0.	0.	0.	0.	0.	0
1998	37462.	0.	0.	40540.	130187.	0.	0.	0.	10172
1997	0.	0.	0.	0.	0.	42687.	19541.	21040.	46343
1996	0.	0.	0.	0.	0.	0.	32743.	0.	0
1995	39347.	0.	0.	0.	0.	0.	0.	0.	17300
1994	0.	0.	0.	0.	0.	0.	18938.	0.	0
1993	31884.	0.	0.	0.	0.	0.	0.	0.	0
1992	75077.	0.	0.	0.	0.	0.	0.	0.	14428
1991	0.	0.	0.	0.	0.	0.	0.	0.	0
1990	0.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	0.	0.	0.	0.	0.	0.	0.	0.	0
1987	32489.	0.	36447.	0.	0.	0.	20261.	0.	0
1986	19370.	0.	0.	0.	0.	0.	23659.	0.	0
TOTAL	1155097.	0.	85721.	131295.	174207.	42687.	115142.	21040.	88243

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39205 Vehicles Over 1 Ton

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	8912.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	0.	0.	0.	0.	0.	0.	0.	0.	0
2007	281983.	0.	0.	0.	0.	0.	0.	0.	0
2006	364268.	0.	0.	0.	0.	0.	0.	0.	0
2005	10203.	0.	0.	0.	0.	0.	0.	0.	0
2004	0.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	48484.	0.	0.	0.	0.	0.	0.	0.	0
2001	151657.	0.	0.	0.	0.	0.	0.	0.	0
2000	53961.	0.	0.	0.	0.	0.	0.	0.	0
1999	0.	0.	0.	0.	0.	0.	0.	0.	0
1998	37462.	0.	0.	0.	0.	0.	0.	0.	0
1997	0.	0.	0.	1308.	0.	32387.	0.	0.	0
1996	0.	0.	0.	0.	528.	0.	0.	0.	0
1995	39347.	0.	0.	3572.	0.	0.	0.	0.	0
1994	0.	32517.	38209.	18901.	15720.	0.	0.	0.	0
1993	31884.	0.	33566.	14079.	0.	16808.	0.	0.	0
1992	75077.	0.	12433.	36393.	29125.	0.	0.	14860.	0
1991	0.	0.	0.	2046.	0.	28279.	0.	28062.	0
1990	0.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	28957.	59837.	0.	0.	34090.	0.	0
1988	0.	0.	37555.	0.	0.	0.	35447.	46887.	0
1987	32489.	0.	22772.	0.	0.	0.	25210.	24651.	0
1986	19370.	0.	0.	0.	0.	0.	26343.	9516.	0
TOTAL	1155097.	32517.	173492.	136136.	45373.	77474.	121090.	123976.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39205 Vehicles Over 1 Ton

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990
2011	0.	0.	0.	0.	0.	0.	0.
2010	8912.	0.	0.	0.	0.	0.	0.
2009	0.	0.	0.	0.	0.	0.	0.
2008	0.	0.	0.	0.	0.	0.	0.
2007	281983.	0.	0.	0.	0.	0.	0.
2006	364268.	0.	0.	0.	0.	0.	0.
2005	10203.	0.	0.	0.	0.	0.	0.
2004	0.	0.	0.	0.	0.	0.	0.
2003	0.	0.	0.	0.	0.	0.	0.
2002	48484.	0.	0.	0.	0.	0.	0.
2001	151657.	0.	0.	0.	0.	0.	0.
2000	53961.	0.	0.	0.	0.	0.	0.
1999	0.	0.	0.	0.	0.	0.	0.
1998	37462.	0.	0.	0.	0.	0.	0.
1997	0.	0.	0.	0.	0.	0.	0.
1996	0.	0.	0.	0.	0.	0.	0.
1995	39347.	0.	0.	0.	0.	0.	0.
1994	0.	0.	0.	0.	0.	0.	0.
1993	31884.	0.	0.	0.	0.	0.	0.
1992	75077.	0.	0.	0.	0.	0.	0.
1991	0.	0.	0.	0.	0.	0.	0.
1990	0.	0.	0.	0.	0.	0.	0.
1989	0.	0.	0.	0.	0.	0.	0.
1988	0.	0.	0.	0.	0.	0.	0.
1987	32489.	0.	0.	0.	0.	0.	2949.
1986	19370.	0.	0.	0.	0.	0.	0.
TOTAL	1155097.	0.	0.	0.	0.	0.	2949.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39205 Vehicles Over 1 Ton

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1990 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	2040000.	0.	0.00000000	1.00000000	1.00000000
0.5	2162883.	0.	0.00000000	1.00000000	1.00000000
1.5	2273861.	32387.	0.01424317	0.98575683	1.00000000
2.5	2406253.	2949.	0.00122556	0.99877444	0.98575683
3.5	2482191.	1836.	0.00073967	0.99926033	0.98454872
4.5	2198372.	14860.	0.00675955	0.99324045	0.98382048
5.5	1819244.	118354.	0.06505669	0.93494331	0.97717030
6.5	1690688.	89326.	0.05283411	0.94716589	0.91359883
7.5	1601362.	180006.	0.11240806	0.88759194	0.86532965
8.5	1421355.	286967.	0.20189678	0.79810322	0.76805962
9.5	1085904.	280194.	0.25802833	0.74197167	0.61299085
10.5	654053.	75266.	0.11507630	0.88492370	0.45482185
11.5	524827.	119546.	0.22778173	0.77221827	0.40248263
12.5	405280.	28957.	0.07144937	0.92855063	0.31080444
13.5	338862.	37555.	0.11082683	0.88917317	0.28859766
14.5	301307.	22772.	0.07557740	0.92442260	0.25661330
15.5	278534.	0.	0.00000000	1.00000000	0.23721913
16.5	239188.	0.	0.00000000	1.00000000	0.23721913
17.5	239187.	0.	0.00000000	1.00000000	0.23721913
18.5	207303.	20261.	0.09773616	0.90226384	0.23721913
19.5	111966.	23659.	0.21130522	0.78869478	0.21403424
20.5	88307.	0.	0.00000000	1.00000000	0.16880769
21.5	88307.	0.	0.00000000	1.00000000	0.16880769
22.5	88307.	36447.	0.41273059	0.58726941	0.16880769
23.5	51859.	0.	0.00000000	1.00000000	0.09913559
24.5	19370.	0.	0.00000000	1.00000000	0.09913559
TOTAL		1371342.			12.67220020

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39205 Vehicles Over 1 Ton

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1992	1996	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1993	1997	14.64	0.006691	297.21	2.25	2.00	0.50	1.50
1994	1998	11.75	0.010535	293.66	2.63	3.00	1.00	2.00
1995	1999	11.72	0.008962	311.45	2.05	2.00	0.50	1.00
1996	2000	11.57	0.011643	341.52	1.61	1.00	-0.50	0.50
1997	2001	10.17	0.017641	349.20	1.57	1.00	-0.50	0.50
1998	2002	10.12	0.017198	340.75	2.00	1.50	0.00	1.00
1999	2003	10.92	0.019734	343.29	1.62	1.00	-0.50	0.50
2000	2004	11.05	0.021028	339.51	1.69	1.00	-0.50	0.50
2001	2005	11.44	0.021706	345.34	1.55	1.00	-0.50	0.50
2002	2006	12.11	0.020992	318.03	1.93	1.50	0.00	1.00
2003	2007	14.58	0.018229	346.46	1.57	1.00	-0.50	0.50
2004	2008	12.12	0.028071	391.89	1.11	0.50	SC	0.50
2005	2009	11.70	0.030169	397.49	1.03	0.00	SC	0.50
2006	2010	11.16	0.029276	380.73	1.24	0.50	SC	0.50
2007	2011	12.84	0.023030	416.51	0.88	0.00	SC	0.50

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39205 Vehicles Over 1 Ton

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	12.85	0.023030	416.50	0.88	0.00	SC	0.50
2006	2011	12.37	0.022925	383.86	1.20	0.50	SC	0.50
2005	2011	13.09	0.021104	378.13	1.21	0.50	SC	0.50
2004	2011	12.86	0.019952	392.67	1.09	0.50	SC	0.50
2003	2011	13.26	0.019013	388.44	1.16	0.50	SC	0.50
2002	2011	12.33	0.018184	368.89	1.30	0.50	SC	0.50
2001	2011	11.93	0.018888	372.93	1.30	0.50	SC	0.50
2000	2011	12.13	0.018108	375.07	1.30	0.50	SC	0.50
1999	2011	12.05	0.016701	385.91	1.19	0.50	SC	0.50
1998	2011	11.78	0.017406	377.66	1.27	0.50	SC	0.50
1997	2011	11.51	0.017133	377.90	1.25	0.50	SC	0.50
1996	2011	11.85	0.015778	367.17	1.34	0.50	SC	0.50
1995	2011	12.12	0.015097	359.03	1.42	1.00	-0.50	0.50
1994	2011	12.32	0.014779	353.09	1.48	1.00	-0.50	0.50
1993	2011	12.47	0.014553	348.79	1.54	1.00	-0.50	0.50
1992	2011	12.58	0.014411	345.80	1.59	1.00	-0.50	0.50
1991	2011	12.66	0.014289	343.67	1.62	1.00	-0.50	0.50
1990	2011	12.70	0.014143	342.61	1.64	1.00	-0.50	0.50

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39205 Vehicles Over 1 Ton

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1992	1996	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1993	1997	12.76	0.006350	207.66	3.39	3.00	2.00	3.00
1994	1998	11.18	0.008535	174.38	3.59	4.00	3.00	3.00
1995	1999	11.35	0.009023	295.12	2.30	2.00	0.50	1.50
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE

P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39205 Vehicles Over 1 Ton

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39205 Vehicles Over 1 Ton

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	20.13	0.000434	156.45	5.10	5.00	4.00	4.00
1991	1995	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1992	1996	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1993	1997	12.07	0.006333	153.22	3.95	4.00	3.00	3.00
1994	1998	11.18	0.008357	147.55	4.37	4.00	3.00	4.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	19.98	0.018103	357.89	-2.60	0.00	SC	0.50
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	10.59	0.028179	354.09	1.26	0.50	SC	0.50
2007	2011	12.06	0.020705	302.68	0.80	0.00	SC	0.50

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39205 Vehicles Over 1 Ton

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	12.06	0.020705	302.68	0.80	0.00	SC	0.50
2006	2011	11.93	0.021510	347.74	1.08	0.50	SC	0.50
2005	2011	12.68	0.019771	311.42	1.11	0.50	SC	0.50
2004	2011	12.50	0.018047	308.04	1.06	0.00	SC	0.50
2003	2011	12.87	0.017241	299.16	1.04	0.00	SC	0.50
2002	2011	12.71	0.015746	389.49	0.27	0.00	SC	0.50
2001	2011	12.82	0.016173	409.50	-0.46	0.00	SC	0.50
2000	2011	12.41	0.015625	374.70	0.54	0.00	SC	0.50
1999	2011	12.55	0.014658	370.58	0.52	0.00	SC	0.50
1998	2011	13.66	0.015295	428.41	-1.70	0.00	SC	0.50
1997	2011	13.19	0.014771	420.92	-1.16	0.00	SC	0.50
1996	2011	14.47	0.013655	438.92	-2.60	0.00	SC	0.50
1995	2011	17.11	0.013245	493.97	-2.60	0.00	SC	0.50
1994	2011	24.93	0.013146	607.64	-2.60	0.00	SC	0.50
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 392.05 - Vehicles over 1 Ton
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	85,721	0	0	3,950	5	3,950	5
2009	131,294	0	0	3,016	2	3,016	2
2008	174,207	0	0	6,374	4	6,374	4
2007	42,687	0	0	2,200	5	2,200	5
2006	115,142	(552)	(0)	11,517	10	10,965	10
2005	37,911	(430)	(1)	3,762	10	3,332	9
2004	88,243	(720)	(1)	4,100	5	3,380	4
2003	32,517	0	0	3,500	11	3,500	11
2002	179,161	0	0	12,010	7	12,010	7
2001	136,136	0	0	12,750	9	12,750	9
2000	67,392	0	0	17,260	26	17,260	26
1999	101,742	0	0	16,350	16	16,350	16
1998	202,522	0	0	16,250	8	16,250	8
1997	123,975	0	0	11,695	9	11,695	9
1996	117,864	0	0	3,500	3	3,500	3
1995	22,211	0	0	0	0	0	0
1994	16,790	0	0	600	4	600	4
1993	30,344	0	0	1,500	5	1,500	5
1992	19,001	0	0	1,500	8	1,500	8
1991	65,112	0	0	4,150	6	4,150	6
1990	26,187	(149)	(1)	2,550	10	2,401	9
1989	35,318	0	0	1,300	4	1,300	4
1988	135,020	(95)	(0)	6,628	5	6,533	5
1987	14,988	0	0	1,900	13	1,900	13
1986	36,397	0	0	3,650	10	3,650	10
1985	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	2,037,883	**(1,945)**	**(0)**	**152,011**	**7**	**150,066**	**7**

Peoples Gas System
Net Salvage Analysis
Account - 392.05 - Vehicles over 1 Ton
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	549,052	(552)	(0)	27,057	5	26,505	5
2009	501,242	(982)	(0)	26,868	5	25,886	5
2008	458,190	(1,702)	(0)	27,952	6	26,250	6
2007	316,500	(1,702)	(1)	25,078	8	23,376	7
2006	452,974	(1,702)	(0)	34,888	8	33,186	7
2005	473,968	(1,150)	(0)	36,122	8	34,972	7
2004	503,450	(720)	(0)	49,620	10	48,900	10
2003	516,949	0	0	61,870	12	61,870	12
2002	686,954	0	0	74,620	11	74,620	11
2001	631,768	0	0	74,305	12	74,305	12
2000	613,496	0	0	65,055	11	65,055	11
1999	568,314	0	0	47,795	8	47,795	8
1998	483,362	0	0	32,045	7	32,045	7
1997	311,185	0	0	17,295	6	17,295	6
1996	206,210	0	0	7,100	3	7,100	3
1995	153,458	0	0	7,750	5	7,750	5
1994	157,435	(149)	(0)	10,300	7	10,151	6
1993	175,962	(149)	(0)	11,000	6	10,851	6
1992	280,637	(243)	(0)	16,128	6	15,884	6
1991	276,624	(243)	(0)	16,528	6	16,284	6
1990	247,909	(243)	(0)	16,028	6	15,784	6
1989	221,722	(95)	(0)	13,478	6	13,383	6
1988	186,404	(95)	(0)	12,178	7	12,083	6
1987	51,385	0	0	5,550	11	5,550	11
1986	36,397	0	0	3,650	10	3,650	10

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39000. Structures & Improvements

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: 0.

	I	II	III	IV	V	VI
YEAR		AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011		0.50	0.	0.012309	0.	0.
2010		1.50	0.	0.036860	0.	0.
2009		2.50	9582.	0.061327	588.	8994.
2008		3.50	2319.	0.085691	199.	2120.
2007		4.50	59903.	0.109954	6587.	53316.
2006		5.50	8754.	0.134089	1174.	7580.
SUBTOTAL :				0.106094	8547.	72011.
NET SALVAGE:	0.0%				0.	0.
TOTAL :			80558.	0.106094	8547.	72011.

WEIGHTED AGE: 4.3 YEARS
REMAINING LIFE: 35.8 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39000. Structures & Improvements

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 40.0 YRS CURVE: IOWA R3 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.025000	0.
2010	1.50 - 2.50	0.	0.025000	0.
2009	2.50 - 3.50	9582.	0.025000	240.
2008	3.50 - 4.50	2319.	0.025000	58.
2007	4.50 - 5.50	59903.	0.025000	1498.
2006	5.50 - 6.50	8754.	0.025000	219.
SUBTOTAL :		80558.	0.025000	2014.
NET SALVAGE: 0.0 %				0.
TOTAL :		80558.	0.025000	2014.

MONTHLY RATE: 0.002083

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39000. Structures & Improvements

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 40.0 YRS CURVE: IOWA R3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	0.	39.5	0.
2010	1.50	0.	38.5	0.
2009	2.50	9582.	37.5	359775.
2008	3.50	2319.	36.6	84811.
2007	4.50	59903.	35.6	2132657.
2006	5.50	8754.	34.6	303207.
TOTAL:		80558.	35.8	2880450.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39000. Structures & Improvements

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 40.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0125	99.98075	0.01925	49.99519	0.025000	1.24988	1.23063	0.012309
1.50	0.0375	99.93475	0.04600	99.95775	0.025000	2.49894	3.68357	0.036860
2.50	0.0625	99.87875	0.05600	99.90675	0.025000	2.49767	6.12524	0.061327
3.50	0.0875	99.81025	0.06850	99.84450	0.025000	2.49611	8.55285	0.085691
4.50	0.1125	99.72875	0.08150	99.76950	0.025000	2.49424	10.96559	0.109954
5.50	0.1375	99.63050	0.09825	99.67963	0.025000	2.49199	13.35933	0.134089
6.50	0.1625	99.51400	0.11650	99.57225	0.025000	2.48931	15.73214	0.158090
7.50	0.1875	99.37575	0.13825	99.44488	0.025000	2.48612	18.08001	0.181936
8.50	0.2125	99.21425	0.16150	99.29500	0.025000	2.48238	20.40089	0.205625
9.50	0.2375	99.02600	0.18825	99.12012	0.025000	2.47800	22.69064	0.229138
10.50	0.2625	98.80700	0.21900	98.91650	0.025000	2.47291	24.94455	0.252457
11.50	0.2875	98.55450	0.25250	98.68075	0.025000	2.46702	27.15907	0.275574
12.50	0.3125	98.26450	0.29000	98.40950	0.025000	2.46024	29.32931	0.298473
13.50	0.3375	97.93275	0.33175	98.09862	0.025000	2.45247	31.45002	0.321139
14.50	0.3625	97.55525	0.37750	97.74400	0.025000	2.44360	33.51612	0.343560
15.50	0.3875	97.12875	0.42650	97.34200	0.025000	2.43355	35.52317	0.365733
16.50	0.4125	96.64725	0.48150	96.88800	0.025000	2.42220	37.46387	0.387635
17.50	0.4375	96.10650	0.54075	96.37687	0.025000	2.40942	39.33254	0.409260
18.50	0.4625	95.50250	0.60400	95.80450	0.025000	2.39511	41.12366	0.430603
19.50	0.4875	94.82925	0.67325	95.16587	0.025000	2.37915	42.82955	0.451649
20.50	0.5125	94.08150	0.74775	94.45537	0.025000	2.36138	44.44319	0.472390
21.50	0.5375	93.25400	0.82750	93.66775	0.025000	2.34169	45.95738	0.492819
22.50	0.5625	92.34125	0.91275	92.79763	0.025000	2.31994	47.36457	0.512930
23.50	0.5875	91.33650	1.00475	91.83888	0.025000	2.29597	48.65580	0.532709
24.50	0.6125	90.23350	1.10300	90.78500	0.025000	2.26963	49.82242	0.552150
25.50	0.6375	89.02525	1.20825	89.62938	0.025000	2.24073	50.85490	0.571241
26.50	0.6625	87.70350	1.32175	88.36438	0.025000	2.20911	51.74226	0.589968
27.50	0.6875	86.26025	1.44325	86.98187	0.025000	2.17455	52.47356	0.608317
28.50	0.7125	84.68750	1.57275	85.47387	0.025000	2.13685	53.03766	0.626275
29.50	0.7375	82.97600	1.71150	83.83175	0.025000	2.09579	53.42195	0.643824
30.50	0.7625	81.11550	1.86050	82.04575	0.025000	2.05114	53.61259	0.660941
31.50	0.7875	79.09725	2.01825	80.10637	0.025000	2.00266	53.59700	0.677609
32.50	0.8125	76.91100	2.18625	78.00412	0.025000	1.95010	53.36086	0.693800
33.50	0.8375	74.55025	2.36075	75.73062	0.025000	1.89327	52.89337	0.709500
34.50	0.8625	72.00750	2.54275	73.27887	0.025000	1.83197	52.18259	0.724683
35.50	0.8875	69.27650	2.73100	70.64200	0.025000	1.76605	51.21765	0.739322
36.50	0.9125	66.35800	2.91850	67.81725	0.025000	1.69543	49.99458	0.753407
37.50	0.9375	63.25300	3.10500	64.80550	0.025000	1.62014	48.50971	0.766916
38.50	0.9625	59.96950	3.28350	61.61125	0.025000	1.54028	46.76649	0.779838

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39000. Structures & Improvements

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 40.0 YEARS CURVE: IOWA R3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	0.9875	56.52100	3.44850	58.24525	0.025000	1.45613	44.77413	0.792168
40.50	1.0125	52.92575	3.59525	54.72337	0.025000	1.36808	42.54696	0.803899
41.50	1.0375	49.20975	3.71600	51.06775	0.025000	1.27669	40.10766	0.815035
42.50	1.0625	45.40575	3.80400	47.30775	0.025000	1.18269	37.48635	0.825586
43.50	1.0875	41.55150	3.85425	43.47862	0.025000	1.08697	34.71906	0.835567
44.50	1.1125	37.68925	3.86225	39.62037	0.025000	0.99051	31.84732	0.844998
45.50	1.1375	33.86575	3.82350	35.77750	0.025000	0.89444	28.91826	0.853909
46.50	1.1625	30.12850	3.73725	31.99713	0.025000	0.79993	25.98094	0.862338
47.50	1.1875	26.52325	3.60525	28.32588	0.025000	0.70815	23.08384	0.870325
48.50	1.2125	23.09225	3.43100	24.80775	0.025000	0.62019	20.27303	0.877915
49.50	1.2375	19.87350	3.21875	21.48287	0.025000	0.53707	17.59135	0.885166
50.50	1.2625	16.89675	2.97675	18.38512	0.025000	0.45963	15.07423	0.892138
51.50	1.2875	14.18250	2.71425	15.53963	0.025000	0.38849	12.74847	0.898887
52.50	1.3125	11.74275	2.43975	12.96263	0.025000	0.32407	10.63279	0.905477
53.50	1.3375	9.58025	2.16250	10.66150	0.025000	0.26654	8.73682	0.911962
54.50	1.3625	7.68975	1.89050	8.63500	0.025000	0.21587	7.06220	0.918391
55.50	1.3875	6.05900	1.63075	6.87437	0.025000	0.17186	5.60331	0.924791
56.50	1.4125	4.67225	1.38675	5.36563	0.025000	0.13414	4.35070	0.931178
57.50	1.4375	3.51150	1.16075	4.09188	0.025000	0.10230	3.29225	0.937561
58.50	1.4625	2.55725	0.95425	3.03437	0.025000	0.07586	2.41385	0.943926
59.50	1.4875	1.78975	0.76750	2.17350	0.025000	0.05434	1.70069	0.950240
60.50	1.5125	1.19025	0.59950	1.49000	0.025000	0.03725	1.13844	0.956473
61.50	1.5375	0.74050	0.44975	0.96538	0.025000	0.02413	0.71283	0.962629
62.50	1.5625	0.42000	0.32050	0.58025	0.025000	0.01451	0.40683	0.968650
63.50	1.5875	0.20925	0.21075	0.31463	0.025000	0.00787	0.20395	0.974664
64.50	1.6125	0.08475	0.12450	0.14700	0.025000	0.00368	0.08312	0.980808
65.50	1.6375	0.02425	0.06050	0.05450	0.025000	0.00136	0.02399	0.989111
66.50	1.6625	0.00325	0.02100	0.01375	0.025000	0.00034	0.00333	1.000000
67.50	1.6875	0.00000	0.00325	0.00162	0.025000	0.00004	0.00000	1.000000
		3999.99999	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39000 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS					
		2011	2010	2009	2008	2007	2006
2011	0.	0.	0.	0.	0.	0.	0.
2010	0.	0.	0.	0.	0.	0.	0.
2009	9582.	0.	0.	0.	0.	0.	0.
2008	2319.	0.	0.	0.	0.	0.	0.
2007	59903.	0.	0.	0.	0.	0.	0.
2006	8754.	0.	0.	0.	0.	0.	0.
TOTAL	80558.	0.	0.	0.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39000 Structures & Improvements

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 2006 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	80559.	0.	0.00000000	1.00000000	1.00000000
0.5	80559.	0.	0.00000000	1.00000000	1.00000000
1.5	80558.	0.	0.00000000	1.00000000	1.00000000
2.5	70976.	0.	0.00000000	1.00000000	1.00000000
3.5	68657.	0.	0.00000000	1.00000000	1.00000000
4.5	8754.	0.	0.00000000	1.00000000	1.00000000
TOTAL		0.			5.00000000

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39000 Structures & Improvements

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39000 Structures & Improvements

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39000 Structures & Improvements

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39000 Structures & Improvements

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39000 Structures & Improvements

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39000 Structures & Improvements

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

Peoples Gas System
Net Salvage Analysis
Account - 390.00 - Structures & Improvements
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	0	0	0	0	0	0	0
2009	0	(236,406)	0	802,410	0	566,003	0
2008	673,225	0	0	0	0	0	0
2007	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2004	1,095	0	0	0	0	0	0
2003	22,061	0	0	0	0	0	0
2002	59,146	(140)	(0)	0	0	(140)	(0)
2001	1,756	0	0	0	0	0	0
2000	20,740	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1986	8,187	0	0	0	0	0	0
1985	2,055	40	2	838	41	878	43
1984	270,832	0	0	0	0	0	0
1983	1,683	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	1,060,779	**(236,506)**	**(22)**	**803,248**	**76**	**566,742**	**53**

Peoples Gas System
Net Salvage Analysis
Account - 390.00 - Structures & Improvements
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	673,225	(236,406)	(35)	802,410	119	566,003	84
2009	673,225	(236,406)	(35)	802,410	119	566,003	84
2008	674,320	0	0	0	0	0	0
2007	23,156	0	0	0	0	0	0
2006	82,302	(140)	(0)	0	0	(140)	(0)
2005	84,057	(140)	(0)	0	0	(140)	(0)
2004	104,797	(140)	(0)	0	0	(140)	(0)
2003	103,702	(140)	(0)	0	0	(140)	(0)
2002	81,641	(140)	(0)	0	0	(140)	(0)
2001	22,496	0	0	0	0	0	0
2000	20,740	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1990	8,187	0	0	0	0	0	0
1989	10,242	40	0	838	8	878	9
1988	281,074	40	0	838	0	878	0
1987	282,756	40	0	838	0	878	0
1986	282,756	40	0	838	0	878	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100. Office Furniture

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS. CURVE: IOWA R1 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	5760356.	0.024657	142036.	5618320.
2010	1.50	37648.	0.073210	2756.	34892.
2009	2.50	19484.	0.120825	2354.	17130.
2008	3.50	2419.	0.167592	405.	2014.
2007	4.50	143463.	0.213623	30647.	112816.
2006	5.50	83229.	0.258969	21554.	61675.
2005	6.50	34416.	0.303569	10448.	23968.
2004	7.50	178671.	0.347267	62047.	116624.
2003	8.50	109071.	0.389886	42525.	66546.
2002	9.50	218413.	0.431256	94192.	124221.
2001	10.50	147697.	0.471258	69603.	78094.
2000	11.50	9633.	0.509786	4911.	4722.
1999	12.50	56160.	0.546780	30707.	25453.
1998	13.50	9811.	0.582229	5712.	4099.
1997	14.50	35585.	0.616116	21925.	13660.
1996	15.50	60120.	0.648480	38987.	21133.
1995	16.50	31180.	0.679363	21183.	9997.
1994	17.50	62417.	0.708825	44243.	18174.
1993	18.50	290349.	0.736918	213963.	76386.
1992	19.50	25137.	0.763710	19197.	5940.
1991	20.50	276203.	0.789280	218002.	58201.
1990	21.50	40695.	0.813685	33113.	7582.
1989	22.50	2677.	0.836974	2241.	436.
1988	23.50	42008.	0.859287	36097.	5911.
1987	24.50	1393.	0.880721	1227.	166.
1986	25.50	165640.	0.901518	149327.	16313.
1985	26.50	8405.	0.922575	7754.	651.
1984	27.50	19604.	0.946212	18550.	1054.
1983	28.50	9736.	0.980341	9545.	191.
1982	29.50	4592.	1.000000	4592.	0.
1981	30.50	1697.	1.000000	1697.	0.
1980	31.50	589.	1.000000	589.	0.
1979	32.50	589.	1.000000	589.	0.
1978	33.50	251.	1.000000	251.	0.
1977	34.50	0.	1.000000	0.	0.
1976	35.50	445.	1.000000	445.	0.
1975	36.50	11182.	1.000000	11182.	0.
1974	37.50	0.	1.000000	0.	0.
1973	38.50	0.	1.000000	0.	0.
1972	39.50	0.	1.000000	0.	0.
1971	40.50	0.	1.000000	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100. Office Furniture

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: 0.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	0.	1.000000	0.	0.
1969	42.50	0.	1.000000	0.	0.
1968	43.50	134.	1.000000	134.	0.
1967	44.50	0.	1.000000	0.	0.
1966	45.50	243.	1.000000	243.	0.
1965	46.50	0.	1.000000	0.	0.
1964	47.50	461.	1.000000	461.	0.
1963	48.50	0.	1.000000	0.	0.
1962	49.50	0.	1.000000	0.	0.
1961	50.50	0.	1.000000	0.	0.
1960	51.50	281.	1.000000	281.	0.
1959	52.50	1338.	1.000000	1338.	0.
1958	53.50	0.	1.000000	0.	0.
1957	54.50	0.	1.000000	0.	0.
1956	55.50	0.	1.000000	0.	0.
1955	56.50	0.	1.000000	0.	0.
1954	57.50	0.	1.000000	0.	0.
1953	58.50	0.	1.000000	0.	0.
1952	59.50	0.	1.000000	0.	0.
1951	60.50	0.	1.000000	0.	0.
1950	61.50	306.	1.000000	306.	0.
SUBTOTAL :			0.174267	1377357.	6526371.
NET SALVAGE: 0.0%				0.	0.
TOTAL :		7903728.	0.174267	1377357.	6526371.

WEIGHTED AGE: 4.3 YEARS
REMAINING LIFE: 12.4 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100. Office Furniture

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	5760356.	0.066669	384034.
2010	1.50 - 2.50	37648.	0.066669	2510.
2009	2.50 - 3.50	19484.	0.066669	1299.
2008	3.50 - 4.50	2419.	0.066669	161.
2007	4.50 - 5.50	143463.	0.066669	9564.
2006	5.50 - 6.50	83229.	0.066669	5549.
2005	6.50 - 7.50	34416.	0.066669	2294.
2004	7.50 - 8.50	178671.	0.066669	11912.
2003	8.50 - 9.50	109071.	0.066669	7272.
2002	9.50 - 10.50	218413.	0.066669	14561.
2001	10.50 - 11.50	147697.	0.066669	9847.
2000	11.50 - 12.50	9633.	0.066669	642.
1999	12.50 - 13.50	56160.	0.066669	3744.
1998	13.50 - 14.50	9811.	0.066669	654.
1997	14.50 - 15.50	35585.	0.066669	2372.
1996	15.50 - 16.50	60120.	0.066669	4008.
1995	16.50 - 17.50	31180.	0.066669	2079.
1994	17.50 - 18.50	62417.	0.066669	4161.
1993	18.50 - 19.50	290349.	0.066669	19357.
1992	19.50 - 20.50	25137.	0.066669	1676.
1991	20.50 - 21.50	276203.	0.066669	18414.
1990	21.50 - 22.50	40695.	0.066669	2713.
1989	22.50 - 23.50	2677.	0.066669	178.
1988	23.50 - 24.50	42008.	0.066669	2801.
1987	24.50 - 25.50	1393.	0.066669	93.
1986	25.50 - 26.50	165640.	0.066669	11043.
1985	26.50 - 27.50	8405.	0.066669	560.
1984	27.50 - 28.50	19604.	0.066669	1307.
1983	28.50 - 29.50	9736.	0.066669	649.
1982	29.50 - 30.50	4592.	0.066669	306.
1981	30.50 - 31.50	1697.	0.066669	113.
1980	31.50 - 32.50	589.	0.066669	39.
1979	32.50 - 33.50	589.	0.066669	39.
1978	33.50 - 34.50	251.	0.066669	17.
1977	34.50 - 35.50	0.	0.066669	0.
1976	35.50 - 36.50	445.	0.066669	30.
1975	36.50 - 37.50	11182.	0.066669	745.
1974	37.50 - 38.50	0.	0.066669	0.
1973	38.50 - 39.50	0.	0.066669	0.
1972	39.50 - 40.50	0.	0.066669	0.
1971	40.50 - 41.50	0.	0.066669	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100. Office Furniture

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	0.	0.066669	0.
1969	42.50 - 43.50	0.	0.066669	0.
1968	43.50 - 44.50	134.	0.066669	9.
1967	44.50 - 45.50	0.	0.066669	0.
1966	45.50 - 46.50	243.	0.066669	16.
1965	46.50 - 47.50	0.	0.066669	0.
1964	47.50 - 48.50	461.	0.066669	31.
1963	48.50 - 49.50	0.	0.066669	0.
1962	49.50 - 50.50	0.	0.066669	0.
1961	50.50 - 51.50	0.	0.066669	0.
1960	51.50 - 52.50	281.	0.066669	19.
1959	52.50 - 53.50	1338.	0.066669	89.
1958	53.50 - 54.50	0.	0.066669	0.
1957	54.50 - 55.50	0.	0.066669	0.
1956	55.50 - 56.50	0.	0.066669	0.
1955	56.50 - 57.50	0.	0.066669	0.
1954	57.50 - 58.50	0.	0.066669	0.
1953	58.50 - 59.50	0.	0.066669	0.
1952	59.50 - 60.50	0.	0.066669	0.
1951	60.50 - 61.50	0.	0.066669	0.
1950	61.50 - 62.50	306.	0.066669	20.
SUBTOTAL :		7903728.	0.066669	526930.
NET SALVAGE: 0.0 %				0.
TOTAL :		7903728.	0.066669	526930.

MONTHLY RATE: 0.005556

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100. Office Furniture

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 15.0 YRS CURVE: IOWA R1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	5760356.	14.6	84272480.
2010	1.50	37648.	13.9	523362.
2009	2.50	19484.	13.2	256940.
2008	3.50	2419.	12.5	30203.
2007	4.50	143463.	11.8	1692193.
2006	5.50	83229.	11.1	925104.
2005	6.50	34416.	10.4	359515.
2004	7.50	178671.	9.8	1749318.
2003	8.50	109071.	9.2	998158.
2002	9.50	218413.	8.5	1863265.
2001	10.50	147697.	7.9	1171372.
2000	11.50	9633.	7.4	70831.
1999	12.50	56160.	6.8	381782.
1998	13.50	9811.	6.3	61480.
1997	14.50	35585.	5.8	204902.
1996	15.50	60120.	5.3	316992.
1995	16.50	31180.	4.8	149958.
1994	17.50	62417.	4.4	272607.
1993	18.50	290349.	3.9	1145751.
1992	19.50	25137.	3.5	89092.
1991	20.50	276203.	3.2	872997.
1990	21.50	40695.	2.8	113728.
1989	22.50	2677.	2.4	6546.
1988	23.50	42008.	2.1	88663.
1987	24.50	1393.	1.8	2492.
1986	25.50	165640.	1.5	244681.
1985	26.50	8405.	1.2	9761.
1984	27.50	19604.	0.8	15817.
1983	28.50	9736.	0.3	2871.
1982	29.50	4592.	0.0	0.
1981	30.50	1697.	0.0	0.
1980	31.50	589.	0.0	0.
1979	32.50	589.	0.0	0.
1978	33.50	251.	0.0	0.
1977	34.50	0.	0.0	0.
1976	35.50	445.	0.0	0.
1975	36.50	11182.	0.0	0.
1974	37.50	0.	0.0	0.
1973	38.50	0.	0.0	0.
1972	39.50	0.	0.0	0.
1971	40.50	0.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100. Office Furniture

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 15.0 YRS CURVE: IOWA R1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	0.	0.0	0.
1969	42.50	0.	0.0	0.
1968	43.50	134.	0.0	0.
1967	44.50	0.	0.0	0.
1966	45.50	243.	0.0	0.
1965	46.50	0.	0.0	0.
1964	47.50	461.	0.0	0.
1963	48.50	0.	0.0	0.
1962	49.50	0.	0.0	0.
1961	50.50	0.	0.0	0.
1960	51.50	281.	0.0	0.
1959	52.50	1338.	0.0	0.
1958	53.50	0.	0.0	0.
1957	54.50	0.	0.0	0.
1956	55.50	0.	0.0	0.
1955	56.50	0.	0.0	0.
1954	57.50	0.	0.0	0.
1953	58.50	0.	0.0	0.
1952	59.50	0.	0.0	0.
1951	60.50	0.	0.0	0.
1950	61.50	306.	0.0	0.
TOTAL:		7903728.	12.4	97892862.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100. Office Furniture

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 15.0 YEARS CURVE: IOWA R1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0333	99.12533	0.87467	49.78133	0.066669	3.31885	2.44418	0.024657
1.50	0.1000	97.25500	1.87034	98.19017	0.066669	6.54619	7.12004	0.073210
2.50	0.1667	95.22433	2.03066	96.23967	0.066669	6.41615	11.50553	0.120825
3.50	0.2333	93.03533	2.18900	94.12983	0.066669	6.27550	15.59202	0.167592
4.50	0.3000	90.69300	2.34233	91.86417	0.066669	6.12445	19.37414	0.213623
5.50	0.3667	88.19567	2.49734	89.44434	0.066669	5.96312	22.83992	0.258969
6.50	0.4333	85.52867	2.66700	86.86217	0.066669	5.79097	25.96389	0.303569
7.50	0.5000	82.66500	2.86367	84.09684	0.066669	5.60661	28.70684	0.347267
8.50	0.5667	79.57533	3.08967	81.12017	0.066669	5.40816	31.02533	0.389886
9.50	0.6333	76.23167	3.34366	77.90350	0.066669	5.19371	32.87537	0.431256
10.50	0.7000	72.61500	3.61667	74.42333	0.066669	4.96169	34.22040	0.471258
11.50	0.7667	68.71200	3.90300	70.66350	0.066669	4.71103	35.02843	0.509786
12.50	0.8333	64.52133	4.19067	66.61667	0.066669	4.44123	35.27899	0.546780
13.50	0.9000	60.05600	4.46533	62.28867	0.066669	4.15269	34.96635	0.582229
14.50	0.9667	55.33733	4.71867	57.69667	0.066669	3.84655	34.09424	0.616116
15.50	1.0333	50.40467	4.93267	52.87100	0.066669	3.52483	32.68640	0.648480
16.50	1.1000	45.30900	5.09567	47.85683	0.066669	3.19054	30.78128	0.679363
17.50	1.1667	40.11400	5.19500	42.71150	0.066669	2.84751	28.43379	0.708825
18.50	1.2333	34.89367	5.22033	37.50383	0.066669	2.50032	25.71378	0.736918
19.50	1.3000	29.73300	5.16067	32.31333	0.066669	2.15428	22.70740	0.763710
20.50	1.3667	24.72600	5.00700	27.22950	0.066669	1.81535	19.51575	0.789280
21.50	1.4333	19.96833	4.75767	22.34717	0.066669	1.48985	16.24793	0.813685
22.50	1.5000	15.55700	4.41134	17.76266	0.066669	1.18421	13.02081	0.836974
23.50	1.5667	11.59233	3.96466	13.57466	0.066669	0.90500	9.96114	0.859287
24.50	1.6333	8.15633	3.43600	9.87433	0.066669	0.65831	7.18345	0.880721
25.50	1.7000	5.31800	2.83833	6.73717	0.066669	0.44916	4.79427	0.901518
26.50	1.7667	3.12800	2.19000	4.22300	0.066669	0.28154	2.88582	0.922575
27.50	1.8333	1.58300	1.54500	2.35550	0.066669	0.15704	1.49785	0.946212
28.50	1.9000	0.61100	0.97200	1.09700	0.066669	0.07314	0.59899	0.980341
29.50	1.9667	0.09333	0.51767	0.35217	0.066669	0.02348	0.10480	1.000000
30.50	2.0333	0.00000	0.09333	0.04667	0.066669	0.00311	0.00000	1.000000
		1499.95867	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	5760356.	0.	0.	0.	0.	0.	0.	0.	0
2010	37648.	0.	0.	0.	0.	0.	0.	0.	0
2009	19484.	0.	0.	0.	0.	0.	0.	0.	0
2008	2419.	0.	0.	0.	0.	0.	0.	0.	0
2007	143463.	0.	0.	0.	0.	0.	0.	0.	0
2006	83229.	0.	1619.	0.	0.	0.	0.	0.	0
2005	34416.	0.	0.	0.	0.	0.	0.	0.	0
2004	178671.	0.	56000.	0.	0.	0.	0.	0.	0
2003	109071.	0.	0.	13772.	0.	138316.	0.	0.	0
2002	218413.	0.	0.	0.	0.	0.	0.	0.	0
2001	147697.	552.	0.	0.	0.	0.	0.	0.	0
2000	9633.	0.	0.	0.	0.	5982.	0.	0.	0
1999	56160.	552.	0.	0.	0.	0.	0.	0.	0
1998	9811.	0.	0.	0.	0.	0.	0.	0.	0
1997	35585.	0.	0.	0.	0.	0.	1450.	0.	0
1996	60120.	0.	25041.	0.	0.	0.	0.	0.	0
1995	31180.	0.	0.	0.	0.	0.	0.	0.	0
1994	62417.	0.	0.	0.	18018.	0.	11222.	0.	11104
1993	290349.	0.	38544.	0.	0.	0.	589.	0.	9066
1992	25137.	0.	0.	9248.	0.	0.	0.	0.	1268
1991	276203.	498369.	0.	0.	0.	52535.	781.	0.	148719
1990	40695.	13254.	0.	0.	0.	0.	4237.	0.	0
1989	2677.	73417.	0.	0.	0.	10930.	0.	0.	4164
1988	42008.	0.	1235.	0.	0.	0.	20366.	0.	578
1987	1393.	3449.	0.	0.	0.	0.	566.	0.	0
1986	165640.	678.	0.	0.	0.	0.	409.	0.	0
1985	8405.	7729.	0.	0.	0.	0.	48663.	0.	52774
1984	19604.	17923.	0.	905.	0.	0.	2686.	0.	0
1983	9736.	781.	697.	0.	0.	0.	364.	0.	188
1982	4592.	1767.	0.	0.	0.	0.	1341.	0.	0
1981	1697.	2349.	0.	441.	0.	0.	1552.	0.	0
1980	589.	1068.	671.	0.	0.	0.	0.	0.	0
1979	589.	0.	475.	0.	0.	0.	170.	0.	0
1978	251.	2340.	2677.	0.	0.	0.	0.	0.	0
1977	0.	5361.	4027.	0.	0.	4328.	5352.	0.	0
1976	445.	0.	0.	0.	0.	0.	275.	0.	0
1975	11182.	865.	0.	1056.	0.	0.	0.	293.	0
1974	0.	3195.	0.	0.	0.	0.	219.	0.	0
1973	0.	0.	0.	0.	0.	0.	614.	0.	0
1972	0.	0.	0.	0.	0.	0.	103.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	0.	0.	0.	0.	0.	0.	1406.	0.	0
1968	134.	0.	0.	0.	0.	0.	0.	0.	0
1967	0.	0.	0.	0.	0.	0.	0.	0.	0
1966	243.	0.	0.	0.	0.	0.	0.	0.	0
1965	0.	0.	0.	0.	0.	0.	0.	0.	0
1964	461.	0.	0.	0.	0.	0.	0.	0.	0
1963	0.	0.	0.	0.	0.	0.	0.	0.	0
1962	0.	0.	0.	0.	0.	0.	0.	0.	0
1961	0.	0.	0.	0.	0.	0.	0.	0.	0
1960	281.	0.	0.	0.	0.	0.	213.	0.	0
1959	1338.	0.	354.	0.	0.	0.	47.	0.	0
1958	0.	0.	0.	0.	0.	0.	0.	0.	0
1957	0.	0.	0.	0.	0.	0.	0.	0.	0
1956	0.	0.	0.	0.	0.	0.	0.	0.	0
1955	0.	0.	0.	0.	0.	0.	0.	0.	0
1954	0.	0.	0.	0.	0.	0.	0.	0.	0
1953	0.	0.	0.	0.	0.	0.	0.	0.	0
1952	0.	0.	0.	0.	0.	0.	0.	0.	0
1951	0.	0.	0.	0.	0.	0.	0.	0.	0
1950	306.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	7903728.	633649.	131340.	25422.	18018.	212091.	102625.	293.	227861

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	5760356.	0.	0.	0.	0.	0.	0.	0.	0
2010	37648.	0.	0.	0.	0.	0.	0.	0.	0
2009	19484.	0.	0.	0.	0.	0.	0.	0.	0
2008	2419.	0.	0.	0.	0.	0.	0.	0.	0
2007	143463.	0.	0.	0.	0.	0.	0.	0.	0
2006	83229.	0.	0.	0.	0.	0.	0.	0.	0
2005	34416.	0.	0.	0.	0.	0.	0.	0.	0
2004	178671.	0.	0.	0.	0.	0.	0.	0.	0
2003	109071.	0.	0.	0.	0.	0.	0.	0.	0
2002	218413.	0.	0.	0.	0.	0.	0.	0.	0
2001	147697.	0.	0.	0.	0.	0.	0.	0.	0
2000	9633.	0.	0.	0.	0.	0.	0.	0.	0
1999	56160.	0.	0.	0.	0.	0.	0.	0.	0
1998	9811.	0.	0.	0.	841.	0.	0.	0.	0
1997	35585.	0.	0.	0.	0.	0.	0.	512.	0
1996	60120.	0.	0.	0.	0.	0.	2122.	2055.	0
1995	31180.	0.	651.	0.	0.	0.	0.	5551.	0
1994	62417.	0.	0.	0.	5506.	0.	0.	341454.	0
1993	290349.	0.	1484.	857.	0.	0.	1960.	7389.	0
1992	25137.	0.	0.	0.	6662.	0.	0.	74492.	0
1991	276203.	5.	1056.	21890.	0.	0.	597.	292793.	0
1990	40695.	0.	0.	2369.	0.	0.	0.	54486.	0
1989	2677.	0.	0.	0.	551.	0.	0.	41969.	0
1988	42008.	0.	873.	3655.	0.	3437.	1267.	17810.	0
1987	1393.	0.	583.	2072.	0.	0.	700.	5977.	3374
1986	165640.	0.	0.	169947.	0.	0.	1296.	85351.	0
1985	8405.	7796.	0.	5745.	735.	0.	294.	6063.	0
1984	19604.	5991.	4465.	566.	789.	2127.	0.	130431.	2206
1983	9736.	0.	0.	0.	203.	0.	2546.	178.	0
1982	4592.	779.	0.	2119.	963.	0.	3593.	10900.	0
1981	1697.	0.	249.	7227.	1656.	141.	677.	22370.	1136
1980	589.	0.	1086.	0.	0.	0.	0.	15721.	0
1979	589.	0.	0.	2022.	0.	0.	177.	6273.	0
1978	251.	0.	0.	0.	79.	110.	6763.	0.	0
1977	0.	2594.	0.	0.	840.	104.	12458.	6067.	0
1976	445.	2971.	0.	0.	131.	0.	1540.	0.	0
1975	11182.	1234.	0.	9957.	11066.	1405.	963.	1840.	0
1974	0.	1110.	0.	0.	104.	0.	4871.	4112.	0
1973	0.	229.	0.	286.	0.	0.	976.	0.	0
1972	0.	0.	0.	0.	613.	0.	1001.	257.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	0.	0.	0.	0.	0.	0.	391.	0.	0
1970	0.	0.	0.	200.	517.	0.	0.	0.	0
1969	0.	1983.	0.	142.	0.	0.	0.	0.	0
1968	134.	0.	0.	130.	0.	0.	595.	0.	0
1967	0.	0.	0.	255.	0.	0.	134.	0.	0
1966	243.	0.	0.	0.	0.	0.	0.	0.	0
1965	0.	0.	0.	94.	0.	0.	0.	134.	0
1964	461.	0.	0.	0.	175.	0.	377.	496.	0
1963	0.	0.	474.	0.	503.	0.	297.	0.	216
1962	0.	0.	0.	0.	0.	0.	5777.	504.	0
1961	0.	0.	0.	0.	0.	0.	0.	0.	0
1960	281.	0.	0.	305.	270.	0.	400.	0.	0
1959	1338.	0.	0.	408.	934.	0.	3084.	0.	0
1958	0.	0.	0.	410.	0.	0.	2845.	0.	0
1957	0.	0.	0.	0.	0.	0.	0.	0.	0
1956	0.	0.	0.	0.	0.	0.	0.	501.	0
1955	0.	0.	0.	0.	0.	0.	109.	0.	0
1954	0.	0.	0.	0.	0.	0.	139.	0.	0
1953	0.	0.	0.	0.	0.	0.	116.	167.	0
1952	0.	0.	0.	0.	0.	0.	0.	0.	0
1951	0.	0.	0.	0.	0.	0.	0.	0.	0
1950	306.	0.	0.	0.	0.	0.	156.	0.	0
TOTAL	7903728.	24692.	10921.	230656.	33138.	7324.	58221.	1135853.	6932

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	5760356.	0.	0.	0.	0.	0.	0.	0.	0
2010	37648.	0.	0.	0.	0.	0.	0.	0.	0
2009	19484.	0.	0.	0.	0.	0.	0.	0.	0
2008	2419.	0.	0.	0.	0.	0.	0.	0.	0
2007	143463.	0.	0.	0.	0.	0.	0.	0.	0
2006	83229.	0.	0.	0.	0.	0.	0.	0.	0
2005	34416.	0.	0.	0.	0.	0.	0.	0.	0
2004	178671.	0.	0.	0.	0.	0.	0.	0.	0
2003	109071.	0.	0.	0.	0.	0.	0.	0.	0
2002	218413.	0.	0.	0.	0.	0.	0.	0.	0
2001	147697.	0.	0.	0.	0.	0.	0.	0.	0
2000	9633.	0.	0.	0.	0.	0.	0.	0.	0
1999	56160.	0.	0.	0.	0.	0.	0.	0.	0
1998	9811.	0.	0.	0.	0.	0.	0.	0.	0
1997	35585.	0.	0.	0.	0.	0.	0.	0.	0
1996	60120.	0.	0.	0.	0.	0.	0.	0.	0
1995	31180.	0.	0.	0.	0.	0.	0.	0.	0
1994	62417.	0.	0.	0.	0.	0.	0.	0.	0
1993	290349.	0.	0.	0.	0.	0.	0.	0.	0
1992	25137.	0.	0.	0.	0.	0.	0.	0.	0
1991	276203.	0.	0.	0.	0.	0.	0.	0.	0
1990	40695.	0.	205.	0.	0.	0.	1744.	0.	0
1989	2677.	0.	109.	10068.	0.	0.	10427.	0.	0
1988	42008.	619.	5260.	0.	212.	0.	0.	0.	0
1987	1393.	0.	5165.	0.	277.	0.	894.	1670.	0
1986	165640.	47453.	6459.	139.	3767.	0.	0.	422.	0
1985	8405.	343.	2843.	1064.	355.	15021.	0.	1908.	0
1984	19604.	30931.	115.	7337.	1761.	11696.	57.	991.	0
1983	9736.	7402.	0.	1419.	494.	198.	0.	196.	0
1982	4592.	9316.	1492.	1737.	927.	2426.	362.	3112.	0
1981	1697.	16407.	3459.	14161.	387.	1332.	0.	5786.	114
1980	589.	18288.	1809.	938.	1401.	490.	0.	4737.	147
1979	589.	2626.	0.	104.	544.	735.	0.	3074.	0
1978	251.	0.	0.	462.	0.	2909.	0.	5243.	0
1977	0.	1583.	0.	3735.	10721.	337.	0.	11650.	0
1976	445.	0.	0.	0.	582.	38.	2219.	823.	0
1975	11182.	2531.	1907.	873.	248.	9467.	0.	1537.	1448
1974	0.	4834.	0.	2504.	541.	14638.	0.	4317.	0
1973	0.	0.	125.	0.	723.	2854.	0.	1583.	0
1972	0.	598.	0.	387.	288.	1053.	0.	1510.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	0.	654.	0.	399.	0.	324.	1378.	1148.	0
1970	0.	108.	53.	145.	0.	522.	78.	1451.	27
1969	0.	150.	0.	0.	134.	7628.	0.	839.	107
1968	134.	60.	0.	0.	0.	0.	0.	853.	0
1967	0.	0.	0.	313.	101.	0.	0.	38.	0
1966	243.	0.	0.	0.	315.	0.	47.	1322.	0
1965	0.	0.	0.	401.	1264.	0.	0.	636.	30
1964	461.	0.	0.	0.	543.	0.	57.	1123.	0
1963	0.	0.	136.	215.	63.	2356.	107.	227.	0
1962	0.	2236.	0.	3402.	558.	339.	0.	14862.	0
1961	0.	0.	0.	530.	0.	0.	0.	1161.	0
1960	281.	232.	0.	0.	0.	2122.	0.	1873.	0
1959	1338.	887.	156.	583.	113.	5719.	39.	3485.	966
1958	0.	165.	0.	358.	0.	83.	0.	2995.	0
1957	0.	0.	0.	217.	0.	0.	0.	1560.	0
1956	0.	0.	227.	249.	191.	76.	0.	2204.	0
1955	0.	61.	0.	0.	15272.	28.	0.	8157.	0
1954	0.	0.	0.	284.	569.	0.	0.	584.	0
1953	0.	0.	0.	0.	319.	0.	0.	358.	0
1952	0.	44.	0.	0.	146.	0.	0.	419.	0
1951	0.	200.	0.	0.	0.	0.	0.	1470.	0
1950	306.	0.	0.	1245.	0.	0.	0.	8098.	0
TOTAL	7903728.	147728.	29520.	53269.	42816.	82391.	17409.	103422.	2839

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
2011	5760356.	0.	0.	0.	0.	0.
2010	37648.	0.	0.	0.	0.	0.
2009	19484.	0.	0.	0.	0.	0.
2008	2419.	0.	0.	0.	0.	0.
2007	143463.	0.	0.	0.	0.	0.
2006	83229.	0.	0.	0.	0.	0.
2005	34416.	0.	0.	0.	0.	0.
2004	178671.	0.	0.	0.	0.	0.
2003	109071.	0.	0.	0.	0.	0.
2002	218413.	0.	0.	0.	0.	0.
2001	147697.	0.	0.	0.	0.	0.
2000	9633.	0.	0.	0.	0.	0.
1999	56160.	0.	0.	0.	0.	0.
1998	9811.	0.	0.	0.	0.	0.
1997	35585.	0.	0.	0.	0.	0.
1996	60120.	0.	0.	0.	0.	0.
1995	31180.	0.	0.	0.	0.	0.
1994	62417.	0.	0.	0.	0.	0.
1993	290349.	0.	0.	0.	0.	0.
1992	25137.	0.	0.	0.	0.	0.
1991	276203.	0.	0.	0.	0.	0.
1990	40695.	0.	0.	0.	0.	0.
1989	2677.	0.	0.	0.	0.	0.
1988	42008.	0.	0.	0.	0.	0.
1987	1393.	0.	0.	0.	0.	0.
1986	165640.	0.	0.	0.	0.	0.
1985	8405.	0.	0.	0.	0.	0.
1984	19604.	17.	0.	0.	0.	0.
1983	9736.	0.	0.	0.	0.	0.
1982	4592.	125.	0.	434.	61.	0.
1981	1697.	642.	0.	1646.	1809.	1584.
1980	589.	503.	0.	0.	91.	0.
1979	589.	388.	0.	918.	887.	0.
1978	251.	0.	1443.	0.	448.	131.
1977	0.	89.	3390.	291.	4717.	1674.
1976	445.	181.	0.	0.	0.	1098.
1975	11182.	8508.	0.	483.	301.	0.
1974	0.	384.	208.	108.	3428.	252.
1973	0.	149.	392.	0.	1933.	818.
1972	0.	0.	356.	0.	1122.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1971	0.	230.	85.	0.	690.	603.
1970	0.	182.	0.	0.	653.	0.
1969	0.	77.	167.	835.	2096.	0.
1968	134.	0.	0.	0.	365.	162.
1967	0.	0.	0.	300.	861.	0.
1966	243.	0.	0.	0.	77.	0.
1965	0.	0.	244.	0.	280.	51.
1964	461.	210.	52.	0.	374.	0.
1963	0.	287.	0.	214.	669.	0.
1962	0.	877.	400.	754.	842.	0.
1961	0.	176.	196.	0.	567.	0.
1960	281.	1546.	909.	0.	0.	883.
1959	1338.	879.	1398.	520.	902.	0.
1958	0.	1970.	0.	0.	781.	0.
1957	0.	0.	257.	0.	0.	150.
1956	0.	0.	133.	37.	686.	0.
1955	0.	59.	0.	59.	0.	0.
1954	0.	0.	0.	0.	254.	0.
1953	0.	0.	114.	0.	551.	464.
1952	0.	36.	32.	0.	0.	0.
1951	0.	150.	0.	0.	50.	0.
1950	306.	89.	0.	0.	503.	0.
TOTAL	7903728.	17754.	9776.	6599.	25998.	7870.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	10703127.	2256.	0.00021078	0.99978922	1.00000000
0.5	4986561.	12482.	0.00250313	0.99749687	0.99978922
1.5	5023253.	11829.	0.00235485	0.99764515	0.99728662
2.5	5039479.	345030.	0.06846541	0.93153459	0.99493816
3.5	4711012.	161454.	0.03427162	0.96572838	0.92681931
4.5	4428951.	78972.	0.01783086	0.98216914	0.89505571
5.5	4346068.	396054.	0.09112927	0.90887073	0.87909610
6.5	3925901.	89234.	0.02272956	0.97727044	0.79898472
7.5	3725160.	67387.	0.01808969	0.98191031	0.78082415
8.5	3593527.	93351.	0.02597754	0.97402246	0.76669928
9.5	3292445.	52818.	0.01604218	0.98395782	0.74678231
10.5	3099218.	143540.	0.04631491	0.95368509	0.73480230
11.5	2951947.	69894.	0.02367725	0.97632275	0.70077000
12.5	2829829.	304591.	0.10763583	0.89236417	0.68417769
13.5	2530991.	69753.	0.02755956	0.97244044	0.61053565
14.5	2427952.	229088.	0.09435442	0.90564558	0.59370956
15.5	2140746.	109270.	0.05104295	0.94895705	0.53769044
16.5	2002300.	82565.	0.04123508	0.95876492	0.51024513
17.5	1860452.	58465.	0.03142516	0.96857484	0.48920513
18.5	1515506.	72686.	0.04796154	0.95203846	0.47383178
19.5	1423447.	523269.	0.36760694	0.63239306	0.45110608
20.5	654526.	83335.	0.12732115	0.87267885	0.28527635
21.5	533126.	93182.	0.17478420	0.82521580	0.24895464
22.5	446301.	10922.	0.02447227	0.97552773	0.20544130
23.5	415183.	13274.	0.03197144	0.96802856	0.20041369
24.5	410123.	18741.	0.04569605	0.95430395	0.19400617
25.5	227926.	24983.	0.10961014	0.89038986	0.18514086
26.5	198842.	41389.	0.20815019	0.79184981	0.16484754
27.5	161594.	9381.	0.05805290	0.94194710	0.13053450
28.5	144307.	13734.	0.09517210	0.90482790	0.12295659
29.5	128070.	14425.	0.11263372	0.88736628	0.11125455
30.5	112625.	11122.	0.09875250	0.90124750	0.09872354
31.5	102784.	11040.	0.10740971	0.89259029	0.08897434
32.5	101552.	12623.	0.12430085	0.87569915	0.07941763
33.5	88678.	18410.	0.20760504	0.79239496	0.06954596
34.5	70268.	2243.	0.03192065	0.96807935	0.05510786
35.5	67580.	8742.	0.12935780	0.87064220	0.05334879
36.5	47656.	21298.	0.44691120	0.55308880	0.04644770
37.5	26359.	2666.	0.10114192	0.89885808	0.02568971
38.5	23693.	12259.	0.51741021	0.48258979	0.02309140

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39100 Office Furniture

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	11434.	3322.	0.29053699	0.70946301	0.01114367
40.5	8112.	1740.	0.21449704	0.78550296	0.00790602
41.5	6372.	408.	0.06403013	0.93596987	0.00621021
42.5	5963.	1808.	0.30320309	0.69679691	0.00581257
43.5	4022.	506.	0.12580806	0.87419194	0.00405018
44.5	3515.	116.	0.03300142	0.96699858	0.00354063
45.5	3157.	213.	0.06746912	0.93253088	0.00342379
46.5	2943.	47.	0.01597010	0.98402990	0.00319279
47.5	2436.	156.	0.06403941	0.93596059	0.00314180
48.5	2280.	0.	0.00000000	1.00000000	0.00294060
49.5	2280.	0.	0.00000000	1.00000000	0.00294060
50.5	2279.	354.	0.15533129	0.84466871	0.00294060
51.5	1644.	0.	0.00000000	1.00000000	0.00248383
52.5	307.	0.	0.00000000	1.00000000	0.00248383
53.5	307.	0.	0.00000000	1.00000000	0.00248383
54.5	307.	0.	0.00000000	1.00000000	0.00248383
55.5	307.	0.	0.00000000	1.00000000	0.00248383
56.5	307.	0.	0.00000000	1.00000000	0.00248383
57.5	307.	0.	0.00000000	1.00000000	0.00248383
58.5	307.	0.	0.00000000	1.00000000	0.00248383
59.5	307.	0.	0.00000000	1.00000000	0.00248383
60.5	306.	0.	0.00000000	1.00000000	0.00248383
TOTAL		3406427.			17.04360422

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39100 Office Furniture

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 17.024870 FIT INDEX 0.006860 VARIANCE 0.325674

FITTED RANGE AGE 0.5 TO 60.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	10703127.	2256.	61015.	0.00021078	0.00570070	1.00000000	1.00000000	0.00	0.00000000
0.5	4986561.	12482.	67236.	0.00250313	0.01348343	0.99978922	0.99429930	2.94	0.02372003
1.5	5023253.	11829.	88648.	0.00235485	0.01764749	0.99728662	0.98089273	8.81	0.06951549
2.5	5039479.	345030.	109919.	0.06846541	0.02181155	0.99493816	0.96358243	14.68	0.11206495
3.5	4711012.	161454.	122371.	0.03427162	0.02597560	0.92681931	0.94256521	20.56	0.15165830
4.5	4428951.	78972.	133487.	0.01783086	0.03013966	0.89505571	0.91808151	26.43	0.18855525
5.5	4346068.	396054.	149086.	0.09112927	0.03430372	0.87909610	0.89041085	32.31	0.22298882
6.5	3925901.	89234.	151021.	0.02272956	0.03846777	0.79898472	0.85986645	38.18	0.25516844
7.5	3725160.	67387.	158810.	0.01808969	0.04263183	0.78082415	0.82678930	44.05	0.28528268
8.5	3593527.	93351.	168162.	0.02597754	0.04679588	0.76669928	0.79154176	49.93	0.31350153
9.5	3292445.	52818.	167783.	0.01604218	0.05095994	0.74678231	0.75450087	55.80	0.33997852
10.5	3099218.	143540.	170841.	0.04631491	0.05512400	0.73480230	0.71605155	61.67	0.36485244
11.5	2951947.	69894.	175015.	0.02367725	0.05928805	0.70077000	0.67657993	67.55	0.38824892
12.5	2829829.	304591.	179559.	0.10763583	0.06345211	0.68417769	0.63646682	73.42	0.41028207
13.5	2530991.	69753.	171136.	0.02755956	0.06761617	0.61053565	0.59608166	79.30	0.43105544
14.5	2427952.	229088.	174279.	0.09435442	0.07178022	0.59370956	0.55577690	85.17	0.45066320
15.5	2140746.	109270.	162577.	0.05104295	0.07594428	0.53769044	0.51588311	91.04	0.46919114
16.5	2002300.	82565.	160401.	0.04123508	0.08010833	0.51024513	0.47670474	96.92	0.48671746
17.5	1860452.	58465.	156785.	0.03142516	0.08427239	0.48920513	0.43851672	102.79	0.50331364
18.5	1515506.	72686.	134026.	0.04796154	0.08843645	0.47383178	0.40156187	108.66	0.51904502
19.5	1423447.	523269.	131812.	0.36760694	0.09260050	0.45110608	0.36604916	114.54	0.53397145
20.5	654526.	83335.	63335.	0.12732115	0.09676456	0.28527635	0.33215282	120.41	0.54814772
21.5	533126.	93182.	53808.	0.17478420	0.10092862	0.24895464	0.30001220	126.29	0.56162422
22.5	446301.	10922.	46903.	0.02447227	0.10509267	0.20544130	0.26973239	132.16	0.57444720
23.5	415183.	13274.	45362.	0.03197144	0.10925673	0.20041369	0.24138549	138.03	0.58665926
24.5	410123.	18741.	46516.	0.04569605	0.11342078	0.19400617	0.21501250	143.91	0.59829965
25.5	227926.	24983.	26801.	0.10961014	0.11758484	0.18514086	0.19062561	149.78	0.60940460
26.5	198842.	41389.	24209.	0.20815019	0.12174890	0.16484754	0.16821093	155.65	0.62000753
27.5	161594.	9381.	20347.	0.05805290	0.12591295	0.13053450	0.14773144	161.53	0.63013941
28.5	144307.	13734.	18771.	0.09517210	0.13007701	0.12295659	0.12913013	167.40	0.63982892
29.5	128070.	14425.	17192.	0.11263372	0.13424107	0.11125455	0.11233327	173.28	0.64910263
30.5	112625.	11122.	15588.	0.09875250	0.13840512	0.09872354	0.09725353	179.15	0.65798532
31.5	102784.	11040.	14654.	0.10740971	0.14256918	0.08897434	0.08379315	185.02	0.66650005

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39100 Office Furniture

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 17.024870 FIT INDEX 0.006860 VARIANCE 0.325674

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 60.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	101552.	12623.	14901.	0.12430085	0.14673324	0.07941763	0.07184683	190.90	0.67466830
33.5	88678.	18410.	13381.	0.20760504	0.15089729	0.06954596	0.06130451	196.77	0.68251020
34.5	70268.	2243.	10896.	0.03192065	0.15506135	0.05510786	0.05205382	202.64	0.69004472
35.5	67580.	8742.	10760.	0.12935780	0.15922540	0.05334879	0.04398229	208.52	0.69728970
36.5	47656.	21298.	7786.	0.44691120	0.16338946	0.04644770	0.03697919	214.39	0.70426204
37.5	26359.	2666.	4417.	0.10114192	0.16755352	0.02568971	0.03093718	220.27	0.71097791
38.5	23693.	12259.	4069.	0.51741021	0.17171757	0.02309140	0.02575355	226.14	0.71745290
39.5	11434.	3322.	2011.	0.29053699	0.17588163	0.01114367	0.02133121	232.01	0.72370218
40.5	8112.	1740.	1461.	0.21449704	0.18004569	0.00790602	0.01757944	237.89	0.72974071
41.5	6372.	408.	1174.	0.06403013	0.18420974	0.00621021	0.01441434	243.76	0.73558355
42.5	5963.	1808.	1123.	0.30320309	0.18837380	0.00581257	0.01175908	249.63	0.74124615
43.5	4022.	506.	774.	0.12580806	0.19253785	0.00405018	0.00954398	255.51	0.74674478
44.5	3515.	116.	691.	0.03300142	0.19670191	0.00354063	0.00770640	261.38	0.75209706
45.5	3157.	213.	634.	0.06746912	0.20086597	0.00342379	0.00619054	267.26	0.75732268
46.5	2943.	47.	603.	0.01597010	0.20503002	0.00319279	0.00494707	273.13	0.76244422
47.5	2436.	156.	510.	0.06403941	0.20919408	0.00314180	0.00393277	279.00	0.76748850
48.5	2280.	0.	486.	0.00000000	0.21335814	0.00294060	0.00311006	284.88	0.77248822
49.5	2280.	0.	496.	0.00000000	0.21752219	0.00294060	0.00244650	290.75	0.77748417
50.5	2279.	354.	505.	0.15533129	0.22168625	0.00294060	0.00191433	296.62	0.78252853
51.5	1644.	0.	371.	0.00000000	0.22585031	0.00248383	0.00148995	302.50	0.78768904
52.5	307.	0.	71.	0.00000000	0.23001436	0.00248383	0.00115345	308.37	0.79305513
53.5	307.	0.	72.	0.00000000	0.23417842	0.00248383	0.00088814	314.25	0.79874623
54.5	307.	0.	73.	0.00000000	0.23834247	0.00248383	0.00068015	320.12	0.80492361
55.5	307.	0.	74.	0.00000000	0.24250653	0.00248383	0.00051804	325.99	0.81180698
56.5	307.	0.	76.	0.00000000	0.24667059	0.00248383	0.00039242	331.87	0.81969806
57.5	307.	0.	77.	0.00000000	0.25083464	0.00248383	0.00029562	337.74	0.82901404
58.5	307.	0.	78.	0.00000000	0.25499870	0.00248383	0.00022147	343.61	0.84033556
59.5	307.	0.	80.	0.00000000	0.25916276	0.00248383	0.00016499	349.49	0.85447563
60.5	306.	0.	81.	0.00000000	0.26332681	0.00248383	0.00012223	355.36	0.87257920
TOTAL (EXCEPT AGE 0)	3404171.	3404172.							

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39100 Office Furniture

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 17.024870 FIT INDEX 0.006860 VARIANCE 0.325674

FITTED RANGE AGE 0.5 TO 60.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
61.5					0.26749087		0.00009005	361.24	0.89626772
62.5					0.27165492		0.00006596	367.11	0.92784996
63.5							0.00004804	372.98	0.97063120

EQUIVALENT H CURVE IS 1.29

EQUIVALENT L CURVE IS 0.50

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS

Peoples Gas System
Net Salvage Analysis
Account - 391.00 - Office Furniture
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	131,339	0	0	0	0	0	0
2009	25,422	0	0	0	0	0	0
2008	18,018	60	0	1,378	8	1,438	8
2007	212,091	0	0	0	0	0	0
2006	102,624	0	0	0	0	0	0
2005	293	0	0	0	0	0	0
2004	229,658	0	0	0	0	0	0
2003	24,582	0	0	443	2	443	2
2002	10,919	0	0	0	0	0	0
2001	230,656	0	0	0	0	0	0
2000	33,137	0	0	0	0	0	0
1999	7,326	0	0	0	0	0	0
1998	58,598	0	0	4,500	8	4,500	8
1997	1,136,006	0	0	16,900	1	16,900	1
1996	6,933	0	0	0	0	0	0
1995	148,236	0	0	0	0	0	0
1994	29,520	0	0	296	1	296	1
1993	53,388	(629)	(1)	1,501	3	872	2
1992	43,362	(54)	(0)	588	1	534	1
1991	82,461	0	0	773	1	773	1
1990	17,409	0	0	10,721	62	10,721	62
1989	111,084	0	0	335	0	335	0
1988	2,839	0	0	0	0	0	0
1987	17,956	60	0	2,249	13	2,309	13
1986	10,696	0	0	6	0	6	0
1985	6,625	(29)	(0)	550	8	521	8
1984	27,686	0	0	426	2	426	2
1983	6,524	0	0	100	2	100	2
1982	0	0	0	0	0	0	0
	2,785,386	**(591)**	**(0)**	**40,766**	**1**	**40,175**	**1**

Peoples Gas System
Net Salvage Analysis
Account - 391.00 - Office Furniture
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	489,494	60	0	1,378	0	1,438	0
2009	358,448	60	0	1,378	0	1,438	0
2008	562,684	60	0	1,378	0	1,438	0
2007	569,248	0	0	443	0	443	0
2006	368,076	0	0	443	0	443	0
2005	496,108	0	0	443	0	443	0
2004	528,952	0	0	443	0	443	0
2003	306,619	0	0	443	0	443	0
2002	340,635	0	0	4,500	1	4,500	1
2001	1,465,722	0	0	21,400	1	21,400	1
2000	1,241,999	0	0	21,400	2	21,400	2
1999	1,357,099	0	0	21,400	2	21,400	2
1998	1,379,293	0	0	21,696	2	21,696	2
1997	1,374,084	(629)	(0)	18,697	1	18,068	1
1996	281,439	(682)	(0)	2,385	1	1,702	1
1995	356,967	(682)	(0)	3,157	1	2,475	1
1994	226,140	(682)	(0)	13,878	6	13,196	6
1993	307,703	(682)	(0)	13,917	5	13,235	4
1992	257,154	(54)	(0)	12,416	5	12,362	5
1991	231,748	60	0	14,078	6	14,138	6
1990	159,983	60	0	13,311	8	13,371	8
1989	149,199	32	0	3,140	2	3,172	2
1988	65,801	32	0	3,231	5	3,263	5
1987	69,486	32	0	3,331	5	3,363	5
1986	51,530	(29)	(0)	1,082	2	1,053	2

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39101. Computer Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 8.0 YRS CURVE: IOWA S2 O.C. SALVAGE %: 0.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.062490	0.	0.
2010	1.50	324782.	0.186678	60630.	264152.
2009	2.50	803181.	0.306031	245799.	557382.
2008	3.50	1059383.	0.415178	439833.	619550.
2007	4.50	399191.	0.510734	203880.	195311.
2006	5.50	1214035.	0.592106	718838.	495197.
2005	6.50	1017448.	0.660564	672089.	345359.
2004	7.50	964792.	0.718115	692831.	271961.
2003	8.50	291856.	0.766796	223794.	68062.
2002	9.50	203927.	0.808371	164849.	39078.
2001	10.50	273591.	0.844194	230964.	42627.
2000	11.50	42731.	0.875193	37398.	5333.
1999	12.50	49247.	0.901775	44410.	4837.
1998	13.50	199180.	0.923429	183929.	15251.
1997	14.50	77935.	0.936500	72986.	4949.
1996	15.50	73174.	0.968792	70890.	2284.
1995	16.50	10774.	1.000000	10774.	0.
1994	17.50	230371.	1.000000	230371.	0.
1993	18.50	81037.	1.000000	81037.	0.
1992	19.50	0.	1.000000	0.	0.
1991	20.50	42461.	1.000000	42461.	0.
1990	21.50	142379.	1.000000	142379.	0.
1989	22.50	35527.	1.000000	35527.	0.
1988	23.50	14268.	1.000000	14268.	0.
SUBTOTAL :			0.611809	4619936.	2931334.
NET SALVAGE:	0.0%			0.	0.
TOTAL :		7551270.	0.611809	4619936.	2931334.

WEIGHTED AGE: 7.0 YEARS
REMAINING LIFE: 3.1 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39101. Computer Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 8.0 YRS CURVE: IOWA S2 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.125000	0.
2010	1.50 - 2.50	324782.	0.125000	40598.
2009	2.50 - 3.50	803181.	0.125000	100398.
2008	3.50 - 4.50	1059383.	0.125000	132423.
2007	4.50 - 5.50	399191.	0.125000	49899.
2006	5.50 - 6.50	1214035.	0.125000	151754.
2005	6.50 - 7.50	1017448.	0.125000	127181.
2004	7.50 - 8.50	964792.	0.125000	120599.
2003	8.50 - 9.50	291856.	0.125000	36482.
2002	9.50 - 10.50	203927.	0.125000	25491.
2001	10.50 - 11.50	273591.	0.125000	34199.
2000	11.50 - 12.50	42731.	0.125000	5341.
1999	12.50 - 13.50	49247.	0.125000	6156.
1998	13.50 - 14.50	199180.	0.125000	24897.
1997	14.50 - 15.50	77935.	0.125000	9742.
1996	15.50 - 16.50	73174.	0.125000	9147.
1995	16.50 - 17.50	10774.	0.125000	1347.
1994	17.50 - 18.50	230371.	0.125000	28796.
1993	18.50 - 19.50	81037.	0.125000	10130.
1992	19.50 - 20.50	0.	0.125000	0.
1991	20.50 - 21.50	42461.	0.125000	5308.
1990	21.50 - 22.50	142379.	0.125000	17797.
1989	22.50 - 23.50	35527.	0.125000	4441.
1988	23.50 - 24.50	14268.	0.125000	1783.
SUBTOTAL :		7551270.	0.125000	943909.
NET SALVAGE: 0.0 %				0.
TOTAL :		7551270.	0.125000	943909.

MONTHLY RATE: 0.010417

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39101. Computer Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 8.0 YRS CURVE: IOWA S2

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	0.	7.5	0.
2010	1.50	324782.	6.5	2113219.
2009	2.50	803181.	5.6	4459060.
2008	3.50	1059383.	4.7	4956404.
2007	4.50	399191.	3.9	1562486.
2006	5.50	1214035.	3.3	3961576.
2005	6.50	1017448.	2.7	2762872.
2004	7.50	964792.	2.3	2175686.
2003	8.50	291856.	1.9	544495.
2002	9.50	203927.	1.5	312626.
2001	10.50	273591.	1.2	341018.
2000	11.50	42731.	1.0	42665.
1999	12.50	49247.	0.8	38698.
1998	13.50	199180.	0.6	122011.
1997	14.50	77935.	0.5	39591.
1996	15.50	73174.	0.2	18269.
1995	16.50	10774.	0.0	0.
1994	17.50	230371.	0.0	0.
1993	18.50	81037.	0.0	0.
1992	19.50	0.	0.0	0.
1991	20.50	42461.	0.0	0.
1990	21.50	142379.	0.0	0.
1989	22.50	35527.	0.0	0.
1988	23.50	14268.	0.0	0.
TOTAL:		7551270.	3.1	23450675.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39101. Computer Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 8.0 YEARS CURVE: IOWA S2

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0625	99.99900	0.00100	49.99975	0.125000	6.24997	6.24897	0.062490
1.50	0.1875	99.90625	0.09275	99.95263	0.125000	12.49408	18.65030	0.186678
2.50	0.3125	99.16050	0.74575	99.53338	0.125000	12.44167	30.34622	0.306031
3.50	0.4375	96.73200	2.42850	97.94625	0.125000	12.24328	40.16100	0.415178
4.50	0.5625	91.57000	5.16200	94.15100	0.125000	11.76887	46.76787	0.510734
5.50	0.6875	83.07725	8.49275	87.32362	0.125000	10.91545	49.19058	0.592106
6.50	0.8125	71.39025	11.68700	77.23375	0.125000	9.65422	47.15780	0.660564
7.50	0.9375	57.40825	13.98200	64.39925	0.125000	8.04991	41.22570	0.718115
8.50	1.0625	42.59175	14.81650	50.00000	0.125000	6.25000	32.65920	0.766796
9.50	1.1875	28.60975	13.98200	35.60075	0.125000	4.45009	23.12730	0.808371
10.50	1.3125	16.92275	11.68700	22.76625	0.125000	2.84578	14.28608	0.844194
11.50	1.4375	8.43000	8.49275	12.67638	0.125000	1.58455	7.37788	0.875193
12.50	1.5625	3.26800	5.16200	5.84900	0.125000	0.73113	2.94700	0.901775
13.50	1.6875	0.83950	2.42850	2.05375	0.125000	0.25672	0.77522	0.923429
14.50	1.8125	0.09375	0.74575	0.46663	0.125000	0.05833	0.08780	0.936500
15.50	1.9375	0.00100	0.09275	0.04738	0.125000	0.00592	0.00097	0.968792
16.50	2.0625	0.00000	0.00100	0.00050	0.125000	0.00006	0.00000	1.000000
		800.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39101 Computer Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	324782.	0.	0.	0.	0.	0.	0.	0.	0
2009	803181.	0.	0.	0.	0.	0.	0.	0.	0
2008	1059383.	0.	0.	0.	0.	0.	0.	0.	0
2007	399191.	0.	0.	0.	0.	0.	0.	0.	0
2006	1214035.	0.	0.	0.	0.	0.	0.	0.	0
2005	1017448.	0.	39930.	0.	0.	0.	0.	0.	0
2004	964792.	0.	51684.	0.	8836.	11628.	4418.	0.	0
2003	291856.	0.	88635.	171699.	0.	0.	0.	0.	0
2002	203927.	0.	276771.	57961.	0.	16750.	6904.	0.	0
2001	273591.	0.	407439.	123830.	3535.	10686.	22754.	0.	0
2000	42731.	0.	79154.	32958.	0.	0.	11136.	0.	0
1999	49247.	0.	0.	0.	7337.	1045.	560355.	40679.	20490
1998	199180.	0.	751484.	0.	44507.	1708.	455948.	109887.	982774
1997	77935.	0.	40937.	0.	135631.	0.	75200.	0.	0
1996	73174.	0.	6797.	0.	153708.	7088.	148309.	0.	0
1995	10774.	0.	29976.	0.	4435.	0.	2620.	0.	0
1994	230371.	0.	4132.	0.	10403.	30624.	58560.	0.	0
1993	81037.	0.	0.	0.	64401.	19161.	117075.	0.	0
1992	0.	0.	0.	0.	50959.	670.	17541.	0.	0
1991	42461.	0.	0.	0.	11034.	2415.	52693.	0.	0
1990	142379.	0.	0.	0.	20073.	53947.	79274.	0.	0
1989	35527.	0.	0.	0.	4448.	7696.	32302.	0.	0
1988	14268.	0.	0.	0.	3296.	4777.	1362.	0.	0
TOTAL	7551270.	0.	1776939.	386448.	522603.	168195.	1646451.	150566.	1003264

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39101 Computer Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	324782.	0.	0.	0.	0.	0.	0.	0.	0
2009	803181.	0.	0.	0.	0.	0.	0.	0.	0
2008	1059383.	0.	0.	0.	0.	0.	0.	0.	0
2007	399191.	0.	0.	0.	0.	0.	0.	0.	0
2006	1214035.	0.	0.	0.	0.	0.	0.	0.	0
2005	1017448.	0.	0.	0.	0.	0.	0.	0.	0
2004	964792.	0.	0.	0.	0.	0.	0.	0.	0
2003	291856.	3025.	0.	0.	0.	0.	0.	0.	0
2002	203927.	5876.	0.	0.	0.	0.	0.	0.	0
2001	273591.	73996.	3927.	0.	0.	0.	0.	0.	0
2000	42731.	5459.	3883.	0.	0.	0.	0.	0.	0
1999	49247.	22083.	12610.	4746.	4228.	0.	0.	0.	0
1998	199180.	688896.	85563.	49857.	64296.	0.	0.	0.	0
1997	77935.	22990.	5869.	8623.	50224.	5415.	600.	0.	0
1996	73174.	14317.	9857.	39524.	48142.	11774.	182369.	546.	0
1995	10774.	2218.	15989.	0.	1032190.	10392.	302698.	32341.	0
1994	230371.	4058.	1179.	60802.	224401.	59807.	585651.	118713.	13792
1993	81037.	3398.	53418.	11255.	284532.	454975.	107102.	23330.	0
1992	0.	1587.	700.	1591.	771892.	234219.	32341.	40520.	48199
1991	42461.	814.	1687.	2004.	98125.	6005.	238704.	207737.	38937
1990	142379.	2859.	0.	1938.	9994.	11745.	12168.	18221.	40802
1989	35527.	0.	0.	3674.	1069348.	8701.	0.	57074.	13415
1988	14268.	0.	0.	1288.	31767.	5182.	20601.	76632.	10295
TOTAL	7551270.	851576.	194682.	185302.	3689139.	808215.	1482234.	575114.	165440

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39101 Computer Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	0.	0.	0.	0.	0.	0.	0.	0.	0.
2010	324782.	0.	0.	0.	0.	0.	0.	0.	0.
2009	803181.	0.	0.	0.	0.	0.	0.	0.	0.
2008	1059383.	0.	0.	0.	0.	0.	0.	0.	0.
2007	399191.	0.	0.	0.	0.	0.	0.	0.	0.
2006	1214035.	0.	0.	0.	0.	0.	0.	0.	0.
2005	1017448.	0.	0.	0.	0.	0.	0.	0.	0.
2004	964792.	0.	0.	0.	0.	0.	0.	0.	0.
2003	291856.	0.	0.	0.	0.	0.	0.	0.	0.
2002	203927.	0.	0.	0.	0.	0.	0.	0.	0.
2001	273591.	0.	0.	0.	0.	0.	0.	0.	0.
2000	42731.	0.	0.	0.	0.	0.	0.	0.	0.
1999	49247.	0.	0.	0.	0.	0.	0.	0.	0.
1998	199180.	0.	0.	0.	0.	0.	0.	0.	0.
1997	77935.	0.	0.	0.	0.	0.	0.	0.	0.
1996	73174.	0.	0.	0.	0.	0.	0.	0.	0.
1995	10774.	0.	0.	0.	0.	0.	0.	0.	0.
1994	230371.	0.	4236.	0.	0.	0.	0.	0.	0.
1993	81037.	0.	0.	0.	0.	0.	0.	0.	0.
1992	0.	1747.	0.	0.	0.	0.	0.	0.	0.
1991	42461.	2969.	2897.	0.	0.	0.	0.	0.	0.
1990	142379.	509.	113672.	0.	0.	162541.	0.	0.	0.
1989	35527.	0.	15460.	6313.	0.	8309.	0.	0.	0.
1988	14268.	26590.	50301.	5824.	2824.	16508.	0.	0.	0.
TOTAL	7551270.	31815.	186566.	12137.	2824.	187358.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39101 Computer Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1988 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	21578139.	7261.	0.00033650	0.99966350	1.00000000
0.5	21570877.	177718.	0.00823879	0.99176121	0.99966350
1.5	21068377.	393565.	0.01868037	0.98131963	0.99142748
2.5	19871631.	584115.	0.02939442	0.97060558	0.97290725
3.5	18228133.	973501.	0.05340651	0.94659349	0.94430921
4.5	16855441.	2134562.	0.12663934	0.87336066	0.89387695
5.5	13506844.	2312062.	0.17117707	0.82882293	0.78067696
6.5	10177334.	1727162.	0.16970672	0.83029328	0.64704296
7.5	7485380.	1729680.	0.23107444	0.76892556	0.53723542
8.5	5463844.	770211.	0.14096504	0.85903496	0.41309405
9.5	4489706.	317368.	0.07068792	0.92931208	0.35486223
10.5	3898747.	1225081.	0.31422429	0.68577571	0.32977775
11.5	2630935.	1000007.	0.38009567	0.61990433	0.22615357
12.5	1581681.	197218.	0.12468886	0.87531114	0.14019358
13.5	1185283.	53902.	0.04547606	0.95452394	0.12271300
14.5	1053446.	147740.	0.14024449	0.85975551	0.11713250
15.5	832532.	136780.	0.16429399	0.83570601	0.10070531
16.5	684978.	97283.	0.14202354	0.85797646	0.08416003
17.5	357324.	29131.	0.08152545	0.91847455	0.07220733
18.5	247157.	9225.	0.03732445	0.96267555	0.06632059
19.5	237931.	3296.	0.01385276	0.98614724	0.06384521
20.5	192174.	0.	0.00000000	1.00000000	0.06296078
21.5	49795.	0.	0.00000000	1.00000000	0.06296078
22.5	14268.	0.	0.00000000	1.00000000	0.06296078
TOTAL		14026868.			9.04718725

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39101 Computer Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	14.06	0.006242	366.17	1.36	0.50	SC	0.50
1991	1995	18.62	0.004197	389.38	1.16	0.50	SC	0.50
1992	1996	14.87	0.002585	319.39	1.94	1.50	0.00	1.00
1993	1997	11.78	0.007604	309.82	2.02	1.50	0.00	1.00
1994	1998	9.80	0.009639	402.97	1.00	0.00	SC	0.50
1995	1999	9.40	0.010591	399.05	0.99	0.00	SC	0.50
1996	2000	6.62	0.025666	370.23	2.03	1.50	0.00	1.00
1997	2001	6.53	0.023887	390.77	1.86	1.50	0.00	1.00
1998	2002	6.62	0.027051	415.46	1.72	1.00	-0.50	0.50
1999	2003	7.07	0.030464	402.87	1.89	1.50	0.00	1.00
2000	2004	6.73	0.030716	438.19	1.51	1.00	-0.50	0.50
2001	2005	12.91	0.018475	623.31	-0.83	0.00	SC	0.50
2002	2006	8.73	0.018325	417.91	0.86	0.00	SC	0.50
2003	2007	8.97	0.017869	417.89	0.82	0.00	SC	0.50
2004	2008	9.97	0.015829	345.98	1.65	1.00	-0.50	0.50
2005	2009	11.30	0.012973	323.02	1.94	1.50	0.00	1.00
2006	2010	9.43	0.024363	365.95	2.07	2.00	0.50	1.00
2007	2011	11.55	0.024045	307.44	2.09	2.00	0.50	1.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39101 Computer Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	11.55	0.024045	307.44	2.09	2.00	0.50	1.00
2006	2011	10.20	0.022360	338.22	2.00	1.50	0.00	1.00
2005	2011	10.70	0.019034	322.29	1.97	1.50	0.00	1.00
2004	2011	10.16	0.018891	339.42	1.66	1.00	-0.50	0.50
2003	2011	9.82	0.017027	361.37	1.40	0.50	-0.50	0.50
2002	2011	10.11	0.015264	351.05	1.47	1.00	-0.50	0.50
2001	2011	10.30	0.014559	354.23	1.53	1.00	-0.50	0.50
2000	2011	8.54	0.018530	403.78	1.42	1.00	-0.50	0.50
1999	2011	8.58	0.018488	402.10	1.42	1.00	-0.50	0.50
1998	2011	8.20	0.016619	420.64	1.17	0.50	SC	0.50
1997	2011	8.29	0.015565	415.96	1.22	0.50	SC	0.50
1996	2011	8.49	0.014873	406.31	1.31	0.50	SC	0.50
1995	2011	8.67	0.014300	398.08	1.40	0.50	SC	0.50
1994	2011	8.73	0.013957	395.35	1.44	1.00	-0.50	0.50
1993	2011	8.81	0.013828	391.63	1.48	1.00	-0.50	0.50
1992	2011	8.86	0.013758	389.32	1.52	1.00	-0.50	0.50
1991	2011	8.82	0.013596	391.16	1.48	1.00	-0.50	0.50
1990	2011	8.84	0.013541	390.38	1.49	1.00	-0.50	0.50
1989	2011	8.84	0.013530	390.26	1.50	1.00	-0.50	0.50
1988	2011	8.84	0.013530	390.26	1.50	1.00	-0.50	0.50

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39101 Computer Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1988	1992	7.11	0.001590	161.85	2.62	3.00	1.00	2.00
1989	1993	8.58	0.001230	168.95	2.88	3.00	1.50	2.50
1990	1994	7.82	0.005096	159.86	2.94	3.00	1.50	2.50
1991	1995	9.74	0.003550	189.92	2.79	3.00	1.50	2.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	10.97	0.007761	287.18	2.45	2.00	1.00	2.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39101 Computer Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39101 Computer Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	9.64	0.007794	150.41	3.25	3.00	2.00	2.50
1994	1998	9.32	0.008015	177.04	1.80	1.50	0.00	1.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	6.31	0.024189	198.13	1.88	1.50	0.00	1.00
1997	2001	6.37	0.023495	227.48	1.91	1.50	0.00	1.00
1998	2002	7.81	0.027224	1171.90	-2.60	0.00	SC	0.50
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	13.25	0.015302	199.96	0.84	0.00	SC	0.50
2002	2006	9.25	0.014870	286.59	1.00	0.00	SC	0.50
2003	2007	9.11	0.014125	257.94	1.08	0.00	SC	0.50
2004	2008	9.86	0.014688	319.32	1.53	1.00	-0.50	0.50
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39101 Computer Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 391.01 - Computer Equipment
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	1,776,939	0	0	1,620	0	1,620	0
2009	386,348	0	0	0	0	0	0
2008	534,815	0	0	0	0	0	0
2007	177,909	0	0	0	0	0	0
2006	1,659,588	0	0	0	0	0	0
2005	152,735	0	0	0	0	0	0
2004	1,807,994	0	0	0	0	0	0
2003	852,699	0	0	0	0	0	0
2002	197,975	0	0	750	0	750	0
2001	214,478	0	0	0	0	0	0
2000	3,744,370	0	0	0	0	0	0
1999	842,919	0	0	0	0	0	0
1998	1,482,517	0	0	0	0	0	0
1997	855,434	0	0	25	0	25	0
1996	192,789	0	0	2,000	1	2,000	1
1995	314,567	0	0	2,275	1	2,275	1
1994	336,486	0	0	5,007	1	5,007	1
1993	220,270	0	0	50	0	50	0
1992	48,505	0	0	0	0	0	0
1991	784,814	0	0	50	0	50	0
1990	20,297	0	0	0	0	0	0
1989	5,139	0	0	0	0	0	0
1988	6,388	0	0	0	0	0	0
1987	962	0	0	0	0	0	0
1986	0	0	0	6	0	6	0
1985	165,994	0	0	63,000	38	63,000	38
1984	33,905	0	0	32,832	97	32,832	97
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	16,816,837	**0**	**0**	**107,615**	**1**	**107,615**	**1**

Peoples Gas System
Net Salvage Analysis
Account - 391.01 - Computer Equipment
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	4,535,599	0	0	1,620	0	1,620	0
2009	2,911,395	0	0	0	0	0	0
2008	4,333,041	0	0	0	0	0	0
2007	4,650,925	0	0	0	0	0	0
2006	4,670,991	0	0	750	0	750	0
2005	3,225,881	0	0	750	0	750	0
2004	6,817,516	0	0	750	0	750	0
2003	5,852,441	0	0	750	0	750	0
2002	6,482,259	0	0	750	0	750	0
2001	7,139,718	0	0	25	0	25	0
2000	7,118,029	0	0	2,025	0	2,025	0
1999	3,688,227	0	0	4,300	0	4,300	0
1998	3,181,794	0	0	9,307	0	9,307	0
1997	1,919,547	0	0	9,357	0	9,357	0
1996	1,112,617	0	0	9,332	1	9,332	1
1995	1,704,642	0	0	7,382	0	7,382	0
1994	1,410,372	0	0	5,107	0	5,107	0
1993	1,079,025	0	0	100	0	100	0
1992	865,143	0	0	50	0	50	0
1991	817,600	0	0	50	0	50	0
1990	32,786	0	0	6	0	6	0
1989	178,484	0	0	63,006	35	63,006	35
1988	207,249	0	0	95,838	46	95,838	46
1987	200,861	0	0	95,838	48	95,838	48
1986	199,899	0	0	95,838	48	95,838	48

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102. Office Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.024657	0.	0.
2010	1.50	11702.	0.073210	857.	10845.
2009	2.50	3390.	0.120825	410.	2980.
2008	3.50	3705.	0.167592	621.	3084.
2007	4.50	100172.	0.213623	21399.	78773.
2006	5.50	19401.	0.258969	5024.	14377.
2005	6.50	17334.	0.303569	5262.	12072.
2004	7.50	50945.	0.347267	17692.	33253.
2003	8.50	62928.	0.389886	24535.	38393.
2002	9.50	44924.	0.431256	19374.	25550.
2001	10.50	19811.	0.471258	9336.	10475.
2000	11.50	9846.	0.509786	5019.	4827.
1999	12.50	2835.	0.546780	1550.	1285.
1998	13.50	52814.	0.582229	30750.	22064.
1997	14.50	537.	0.616116	331.	206.
1996	15.50	0.	0.648480	0.	0.
1995	16.50	15851.	0.679363	10769.	5082.
1994	17.50	3561.	0.708825	2524.	1037.
1993	18.50	6957.	0.736918	5127.	1830.
1992	19.50	13006.	0.763710	9933.	3073.
1991	20.50	2340.	0.789280	1847.	493.
1990	21.50	7960.	0.813685	6477.	1483.
1989	22.50	8082.	0.836974	6764.	1318.
1988	23.50	5187.	0.859287	4457.	730.
1987	24.50	10750.	0.880721	9468.	1282.
1986	25.50	2936.	0.901518	2647.	289.
1985	26.50	12172.	0.922575	11230.	942.
1984	27.50	31894.	0.946212	30178.	1716.
1983	28.50	0.	0.980341	0.	0.
1982	29.50	1303.	1.000000	1303.	0.
1981	30.50	2485.	1.000000	2485.	0.
1980	31.50	5707.	1.000000	5707.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102. Office Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: 0.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
SUBTOTAL :				0.477017	253074.	277461.
NET SALVAGE: 0.0%					0.	0.
TOTAL :			530535.	0.477017	253074.	277461.

WEIGHTED AGE: 11.7 YEARS
REMAINING LIFE: 7.8 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102. Office Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.066669	0.
2010	1.50 - 2.50	11702.	0.066669	780.
2009	2.50 - 3.50	3390.	0.066669	226.
2008	3.50 - 4.50	3705.	0.066669	247.
2007	4.50 - 5.50	100172.	0.066669	6678.
2006	5.50 - 6.50	19401.	0.066669	1293.
2005	6.50 - 7.50	17334.	0.066669	1156.
2004	7.50 - 8.50	50945.	0.066669	3396.
2003	8.50 - 9.50	62928.	0.066669	4195.
2002	9.50 - 10.50	44924.	0.066669	2995.
2001	10.50 - 11.50	19811.	0.066669	1321.
2000	11.50 - 12.50	9846.	0.066669	656.
1999	12.50 - 13.50	2835.	0.066669	189.
1998	13.50 - 14.50	52814.	0.066669	3521.
1997	14.50 - 15.50	537.	0.066669	36.
1996	15.50 - 16.50	0.	0.066669	0.
1995	16.50 - 17.50	15851.	0.066669	1057.
1994	17.50 - 18.50	3561.	0.066669	237.
1993	18.50 - 19.50	6957.	0.066669	464.
1992	19.50 - 20.50	13006.	0.066669	867.
1991	20.50 - 21.50	2340.	0.066669	156.
1990	21.50 - 22.50	7960.	0.066669	531.
1989	22.50 - 23.50	8082.	0.066669	539.
1988	23.50 - 24.50	5187.	0.066669	346.
1987	24.50 - 25.50	10750.	0.066669	717.
1986	25.50 - 26.50	2936.	0.066669	196.
1985	26.50 - 27.50	12172.	0.066669	811.
1984	27.50 - 28.50	31894.	0.066669	2126.
1983	28.50 - 29.50	0.	0.066669	0.
1982	29.50 - 30.50	1303.	0.066669	87.
1981	30.50 - 31.50	2485.	0.066669	166.
1980	31.50 - 32.50	5707.	0.066669	380.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102. Office Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA R1 O.C. SALVAGE %: 0.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
SUBTOTAL :			530535.	0.066669	35370.
NET SALVAGE: 0.0 %					0.
TOTAL :			530535.	0.066669	35370.

MONTHLY RATE: 0.005556

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102. Office Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 15.0 YRS CURVE: IOWA R1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	0.	14.6	0.
2010	1.50	11702.	13.9	162675.
2009	2.50	3390.	13.2	44705.
2008	3.50	3705.	12.5	46260.
2007	4.50	100172.	11.8	1181561.
2006	5.50	19401.	11.1	215645.
2005	6.50	17334.	10.4	181074.
2004	7.50	50945.	9.8	498788.
2003	8.50	62928.	9.2	575883.
2002	9.50	44924.	8.5	383243.
2001	10.50	19811.	7.9	157119.
2000	11.50	9846.	7.4	72398.
1999	12.50	2835.	6.8	19273.
1998	13.50	52814.	6.3	330953.
1997	14.50	537.	5.8	3092.
1996	15.50	0.	5.3	0.
1995	16.50	15851.	4.8	76234.
1994	17.50	3561.	4.4	15553.
1993	18.50	6957.	3.9	27453.
1992	19.50	13006.	3.5	46097.
1991	20.50	2340.	3.2	7396.
1990	21.50	7960.	2.8	22245.
1989	22.50	8082.	2.4	19763.
1988	23.50	5187.	2.1	10948.
1987	24.50	10750.	1.8	19233.
1986	25.50	2936.	1.5	4337.
1985	26.50	12172.	1.2	14136.
1984	27.50	31894.	0.8	25732.
1983	28.50	0.	0.3	0.
1982	29.50	1303.	0.0	0.
1981	30.50	2485.	0.0	0.
1980	31.50	5707.	0.0	0.
TOTAL:		530535.	7.8	4161796.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102. Office Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 15.0 YEARS CURVE: IOWA R1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0333	99.12533	0.87467	49.78133	0.066669	3.31885	2.44418	0.024657
1.50	0.1000	97.25500	1.87034	98.19017	0.066669	6.54619	7.12004	0.073210
2.50	0.1667	95.22433	2.03066	96.23967	0.066669	6.41615	11.50553	0.120825
3.50	0.2333	93.03533	2.18900	94.12983	0.066669	6.27550	15.59202	0.167592
4.50	0.3000	90.69300	2.34233	91.86417	0.066669	6.12445	19.37414	0.213623
5.50	0.3667	88.19567	2.49734	89.44434	0.066669	5.96312	22.83992	0.258969
6.50	0.4333	85.52867	2.66700	86.86217	0.066669	5.79097	25.96389	0.303569
7.50	0.5000	82.66500	2.86367	84.09684	0.066669	5.60661	28.70684	0.347267
8.50	0.5667	79.57533	3.08967	81.12017	0.066669	5.40816	31.02533	0.389886
9.50	0.6333	76.23167	3.34366	77.90350	0.066669	5.19371	32.87537	0.431256
10.50	0.7000	72.61500	3.61667	74.42333	0.066669	4.96169	34.22040	0.471258
11.50	0.7667	68.71200	3.90300	70.66350	0.066669	4.71103	35.02843	0.509786
12.50	0.8333	64.52133	4.19067	66.61667	0.066669	4.44123	35.27899	0.546780
13.50	0.9000	60.05600	4.46533	62.28867	0.066669	4.15269	34.96635	0.582229
14.50	0.9667	55.33733	4.71867	57.69667	0.066669	3.84655	34.09424	0.616116
15.50	1.0333	50.40467	4.93267	52.87100	0.066669	3.52483	32.68640	0.648480
16.50	1.1000	45.30900	5.09567	47.85683	0.066669	3.19054	30.78128	0.679363
17.50	1.1667	40.11400	5.19500	42.71150	0.066669	2.84751	28.43379	0.708825
18.50	1.2333	34.89367	5.22033	37.50383	0.066669	2.50032	25.71378	0.736918
19.50	1.3000	29.73300	5.16067	32.31333	0.066669	2.15428	22.70740	0.763710
20.50	1.3667	24.72600	5.00700	27.22950	0.066669	1.81535	19.51575	0.789280
21.50	1.4333	19.96833	4.75767	22.34717	0.066669	1.48985	16.24793	0.813685
22.50	1.5000	15.55700	4.41134	17.76266	0.066669	1.18421	13.02081	0.836974
23.50	1.5667	11.59233	3.96466	13.57466	0.066669	0.90500	9.96114	0.859287
24.50	1.6333	8.15633	3.43600	9.87433	0.066669	0.65831	7.18345	0.880721
25.50	1.7000	5.31800	2.83833	6.73717	0.066669	0.44916	4.79427	0.901518
26.50	1.7667	3.12800	2.19000	4.22300	0.066669	0.28154	2.88582	0.922575
27.50	1.8333	1.58300	1.54500	2.35550	0.066669	0.15704	1.49785	0.946212
28.50	1.9000	0.61100	0.97200	1.09700	0.066669	0.07314	0.59899	0.980341
29.50	1.9667	0.09333	0.51767	0.35217	0.066669	0.02348	0.10480	1.000000
30.50	2.0333	0.00000	0.09333	0.04667	0.066669	0.00311	0.00000	1.000000
		1499.95867	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102 Office Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	11702.	0.	0.	0.	0.	0.	0.	0.	0
2009	3390.	0.	0.	0.	0.	0.	0.	0.	0
2008	3705.	0.	0.	0.	0.	0.	0.	0.	0
2007	100172.	0.	0.	0.	0.	0.	0.	0.	0
2006	19401.	0.	0.	0.	0.	0.	0.	0.	0
2005	17334.	0.	0.	0.	0.	0.	0.	0.	0
2004	50945.	0.	0.	0.	0.	0.	36000.	0.	0
2003	62928.	0.	5731.	0.	0.	0.	0.	0.	0
2002	44924.	0.	0.	0.	0.	0.	0.	4249.	0
2001	19811.	0.	0.	0.	0.	0.	0.	0.	0
2000	9846.	0.	4026.	0.	0.	0.	0.	0.	0
1999	2835.	0.	0.	0.	11976.	0.	0.	550.	0
1998	52814.	0.	0.	0.	923.	0.	0.	0.	0
1997	537.	0.	0.	0.	0.	8956.	2684.	0.	0
1996	0.	0.	0.	0.	0.	8550.	0.	0.	533
1995	15851.	0.	0.	0.	0.	11483.	0.	0.	0
1994	3561.	0.	0.	0.	0.	562.	747.	0.	0
1993	6957.	0.	0.	0.	0.	3826.	3052.	0.	13672
1992	13006.	0.	0.	0.	0.	0.	7018.	0.	0
1991	2340.	0.	0.	0.	0.	39530.	0.	0.	0
1990	7960.	0.	0.	0.	7043.	0.	0.	0.	1039
1989	8082.	0.	0.	0.	2912.	3920.	503.	1747.	0
1988	5187.	0.	0.	0.	0.	15135.	620.	1843.	576
1987	10750.	0.	0.	0.	0.	1378.	0.	0.	0
1986	2936.	0.	0.	0.	0.	4015.	0.	0.	1547
1985	12172.	0.	0.	0.	0.	8907.	877.	0.	189
1984	31894.	0.	0.	0.	2432.	37654.	1179.	2683.	422
1983	0.	0.	0.	0.	280.	6811.	331.	0.	1373
1982	1303.	0.	0.	0.	0.	5998.	1794.	0.	1141
1981	2485.	0.	0.	0.	0.	4362.	971.	0.	2163
1980	5707.	0.	0.	0.	0.	1550.	538.	0.	0
TOTAL	530535.	0.	9757.	0.	25566.	162637.	56314.	11072.	22655

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102 Office Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	11702.	0.	0.	0.	0.	0.	0.	0.	0
2009	3390.	0.	0.	0.	0.	0.	0.	0.	0
2008	3705.	0.	0.	0.	0.	0.	0.	0.	0
2007	100172.	0.	0.	0.	0.	0.	0.	0.	0
2006	19401.	0.	0.	0.	0.	0.	0.	0.	0
2005	17334.	0.	0.	0.	0.	0.	0.	0.	0
2004	50945.	0.	0.	0.	0.	0.	0.	0.	0
2003	62928.	0.	0.	0.	0.	0.	0.	0.	0
2002	44924.	0.	0.	0.	0.	0.	0.	0.	0
2001	19811.	0.	0.	0.	0.	0.	0.	0.	0
2000	9846.	0.	0.	0.	0.	0.	0.	0.	0
1999	2835.	0.	0.	0.	0.	0.	0.	0.	0
1998	52814.	0.	0.	0.	0.	0.	0.	0.	0
1997	537.	0.	0.	0.	1499.	0.	0.	527.	0
1996	0.	0.	0.	0.	0.	0.	0.	21615.	0
1995	15851.	0.	0.	0.	9259.	0.	0.	3679.	0
1994	3561.	0.	645.	0.	0.	0.	0.	2329.	0
1993	6957.	11639.	1396.	644.	0.	0.	0.	0.	0
1992	13006.	0.	0.	0.	8993.	0.	552.	2564.	0
1991	2340.	1020.	0.	0.	1295.	3427.	0.	509.	0
1990	7960.	0.	0.	0.	1039.	600.	12360.	7637.	0
1989	8082.	0.	7657.	4875.	5086.	0.	10344.	0.	5184
1988	5187.	0.	2962.	0.	3498.	0.	5539.	4589.	0
1987	10750.	958.	2326.	0.	0.	0.	5004.	1355.	0
1986	2936.	421.	0.	366.	0.	0.	427.	5494.	0
1985	12172.	0.	0.	0.	1755.	2599.	0.	7959.	0
1984	31894.	4686.	8804.	2282.	6474.	0.	2760.	42278.	0
1983	0.	1851.	0.	469.	1872.	2342.	1845.	15982.	0
1982	1303.	0.	0.	596.	416.	328.	206.	22184.	0
1981	2485.	2356.	0.	619.	1565.	1597.	1304.	2609.	195
1980	5707.	0.	0.	0.	691.	0.	0.	7414.	0
TOTAL	530535.	22931.	23790.	9851.	43442.	10893.	40341.	148724.	5379

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102 Office Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	11702.	0.	0.	0.	0.	0.	0.	0.	0
2009	3390.	0.	0.	0.	0.	0.	0.	0.	0
2008	3705.	0.	0.	0.	0.	0.	0.	0.	0
2007	100172.	0.	0.	0.	0.	0.	0.	0.	0
2006	19401.	0.	0.	0.	0.	0.	0.	0.	0
2005	17334.	0.	0.	0.	0.	0.	0.	0.	0
2004	50945.	0.	0.	0.	0.	0.	0.	0.	0
2003	62928.	0.	0.	0.	0.	0.	0.	0.	0
2002	44924.	0.	0.	0.	0.	0.	0.	0.	0
2001	19811.	0.	0.	0.	0.	0.	0.	0.	0
2000	9846.	0.	0.	0.	0.	0.	0.	0.	0
1999	2835.	0.	0.	0.	0.	0.	0.	0.	0
1998	52814.	0.	0.	0.	0.	0.	0.	0.	0
1997	537.	0.	0.	0.	0.	0.	0.	0.	0
1996	0.	0.	0.	0.	0.	0.	0.	0.	0
1995	15851.	0.	0.	0.	0.	0.	0.	0.	0
1994	3561.	1560.	0.	0.	0.	0.	0.	0.	0
1993	6957.	1224.	0.	0.	0.	0.	0.	0.	0
1992	13006.	3955.	0.	0.	0.	0.	0.	0.	0
1991	2340.	0.	0.	0.	0.	0.	0.	0.	0
1990	7960.	3264.	5039.	0.	0.	0.	536.	0.	0
1989	8082.	629.	2538.	0.	0.	0.	0.	0.	0
1988	5187.	0.	0.	1524.	0.	0.	0.	0.	0
1987	10750.	519.	0.	0.	0.	0.	73.	0.	0
1986	2936.	39796.	908.	0.	0.	31585.	998.	0.	0
1985	12172.	3906.	0.	0.	0.	0.	2700.	0.	0
1984	31894.	3949.	0.	184.	592.	1179.	451.	0.	0
1983	0.	465.	0.	0.	11202.	3694.	812.	2396.	0
1982	1303.	5306.	308.	0.	0.	98.	486.	0.	286
1981	2485.	9318.	971.	0.	1877.	3609.	311.	12319.	1373
1980	5707.	2714.	639.	543.	1048.	0.	0.	0.	706
TOTAL	530535.	76605.	10403.	2251.	14719.	40165.	6367.	14715.	2365

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39102 Office Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984
2011	0.	0.	0.	0.	0.
2010	11702.	0.	0.	0.	0.
2009	3390.	0.	0.	0.	0.
2008	3705.	0.	0.	0.	0.
2007	100172.	0.	0.	0.	0.
2006	19401.	0.	0.	0.	0.
2005	17334.	0.	0.	0.	0.
2004	50945.	0.	0.	0.	0.
2003	62928.	0.	0.	0.	0.
2002	44924.	0.	0.	0.	0.
2001	19811.	0.	0.	0.	0.
2000	9846.	0.	0.	0.	0.
1999	2835.	0.	0.	0.	0.
1998	52814.	0.	0.	0.	0.
1997	537.	0.	0.	0.	0.
1996	0.	0.	0.	0.	0.
1995	15851.	0.	0.	0.	0.
1994	3561.	0.	0.	0.	0.
1993	6957.	0.	0.	0.	0.
1992	13006.	0.	0.	0.	0.
1991	2340.	0.	0.	0.	0.
1990	7960.	0.	0.	0.	0.
1989	8082.	0.	0.	0.	0.
1988	5187.	0.	0.	0.	0.
1987	10750.	0.	0.	0.	0.
1986	2936.	0.	0.	0.	0.
1985	12172.	0.	0.	0.	0.
1984	31894.	0.	0.	0.	0.
1983	0.	247.	0.	0.	0.
1982	1303.	220.	0.	0.	0.
1981	2485.	1633.	0.	0.	0.
1980	5707.	12411.	0.	0.	0.
TOTAL	530535.	14511.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39102 Office Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1984 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	1127749.	1063.	0.00094259	0.99905741	1.00000000
0.5	1178657.	23175.	0.01966221	0.98033779	0.99905741
1.5	1184450.	40903.	0.03453333	0.96546667	0.97941374
2.5	1191794.	12105.	0.01015696	0.98984304	0.94559132
3.5	1209945.	6284.	0.00519362	0.99480638	0.93598699
4.5	1103489.	53654.	0.04862214	0.95137786	0.93112583
5.5	1030434.	7006.	0.00679908	0.99320092	0.88585250
6.5	1006094.	34327.	0.03411908	0.96588092	0.87982952
7.5	920822.	45826.	0.04976640	0.95023360	0.84981054
8.5	812068.	84475.	0.10402454	0.89597546	0.80751853
9.5	682669.	40992.	0.06004667	0.93995333	0.72351679
10.5	621866.	43632.	0.07016303	0.92983697	0.68007201
11.5	568388.	31830.	0.05600048	0.94399952	0.63235610
12.5	533723.	60369.	0.11310923	0.88689077	0.59694386
13.5	420540.	46143.	0.10972321	0.89027679	0.52942399
14.5	373861.	31385.	0.08394831	0.91605169	0.47133389
15.5	342475.	54442.	0.15896635	0.84103365	0.43176621
16.5	272182.	15967.	0.05866295	0.94133705	0.36312991
17.5	252654.	24416.	0.09663809	0.90336191	0.34182764
18.5	221281.	25083.	0.11335361	0.88664639	0.30879407
19.5	183192.	4961.	0.02708088	0.97291912	0.27379115
20.5	175891.	8948.	0.05087242	0.94912758	0.26637664
21.5	158983.	13583.	0.08543681	0.91456319	0.25282542
22.5	137318.	40148.	0.29237245	0.70762755	0.23122482
23.5	91983.	11037.	0.11998956	0.88001044	0.16362105
24.5	70196.	7249.	0.10326799	0.89673201	0.14398824
25.5	60011.	4900.	0.08165170	0.91834830	0.12911886
26.5	42939.	1550.	0.03609772	0.96390228	0.11857609
27.5	9496.	0.	0.00000000	1.00000000	0.11429576
28.5	9495.	0.	0.00000000	1.00000000	0.11429576
29.5	8192.	0.	0.00000000	1.00000000	0.11429576
30.5	5707.	0.	0.00000000	1.00000000	0.11429576
TOTAL		775453.			15.33005615

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39102 Office Equipment

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 15.394160 FIT INDEX 0.006124 VARIANCE 0.332474

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 30.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	936782.	1063.	6526.	0.00113474	0.00696671	1.00000000	1.00000000	0.00	0.00000000
0.5	976782.	23175.	16018.	0.02372587	0.01639829	0.99886526	0.99303329	3.25	0.02557843
1.5	1091808.	40903.	23286.	0.03746355	0.02132804	0.97516632	0.97674925	9.74	0.07483440
2.5	1099487.	12105.	28870.	0.01100968	0.02625780	0.93863313	0.95591710	16.24	0.12033995
3.5	1124347.	6284.	35066.	0.00558902	0.03118755	0.92829908	0.93081682	22.74	0.16245473
4.5	1069528.	53654.	38628.	0.05016605	0.03611730	0.92311080	0.90178693	29.23	0.20149814
5.5	1030434.	7006.	42296.	0.00679908	0.04104706	0.87680197	0.86921682	35.73	0.23775449
6.5	1006094.	34327.	46257.	0.03411908	0.04597681	0.87084053	0.83353803	42.22	0.27147729
7.5	920822.	45826.	46876.	0.04976640	0.05090656	0.84112825	0.79521461	48.72	0.30289291
8.5	812068.	84475.	45343.	0.10402454	0.05583632	0.79926832	0.75473297	55.22	0.33220398
9.5	682669.	40992.	41483.	0.06004667	0.06076607	0.71612480	0.71259146	61.71	0.35959212
10.5	621866.	43632.	40854.	0.07016303	0.06569582	0.67312389	0.66929008	68.21	0.38522043
11.5	568388.	31830.	40143.	0.05600048	0.07062558	0.62589548	0.62532051	74.70	0.40923559
12.5	533723.	60369.	40326.	0.11310923	0.07555533	0.59084504	0.58115689	81.20	0.43176979
13.5	420540.	46143.	33847.	0.10972321	0.08048508	0.52401501	0.53724739	87.70	0.45294232
14.5	373861.	31385.	31933.	0.08394831	0.08541484	0.46651840	0.49400699	94.19	0.47286103
15.5	342475.	54442.	30941.	0.15896635	0.09034459	0.42735496	0.45181146	100.69	0.49162357
16.5	272182.	15967.	25932.	0.05866295	0.09527434	0.35941991	0.41099274	107.18	0.50931848
17.5	252654.	24416.	25317.	0.09663809	0.10020410	0.33833527	0.37183568	113.68	0.52602616
18.5	221281.	25083.	23264.	0.11335361	0.10513385	0.30563920	0.33457622	120.18	0.54181971
19.5	183192.	4961.	20163.	0.02708088	0.11006360	0.27099389	0.29940093	126.67	0.55676574
20.5	175891.	8948.	20226.	0.05087242	0.11499336	0.26365514	0.26644779	133.17	0.57092508
21.5	158983.	13583.	19066.	0.08543681	0.11992311	0.25024237	0.23580806	139.66	0.58435320
22.5	137318.	40148.	17145.	0.29237245	0.12485286	0.22886246	0.20752923	146.16	0.59710089
23.5	91983.	11037.	11938.	0.11998956	0.12978262	0.16194938	0.18161861	152.66	0.60921471
24.5	70196.	7249.	9456.	0.10326799	0.13471237	0.14251714	0.15804767	159.15	0.62073738
25.5	60011.	4900.	8380.	0.08165170	0.13964212	0.12779969	0.13675669	165.65	0.63170819
26.5	42939.	1550.	6208.	0.03609772	0.14457188	0.11736462	0.11765970	172.14	0.64216326
27.5	9496.	0.	1420.	0.00000000	0.14950163	0.11312803	0.10064941	178.64	0.65213592
28.5	9495.	0.	1466.	0.00000000	0.15443138	0.11312803	0.08560216	185.14	0.66165698
29.5	8192.	0.	1305.	0.00000000	0.15936114	0.11312803	0.07238250	191.63	0.67075502
30.5	5707.	0.	938.	0.00000000	0.16429089	0.11312803	0.06084754	198.13	0.67945653
TOTAL (EXCEPT AGE 0)	774390.	774390.							

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39102 Office Equipment

EXPERIENCE BAND 1986 TO 2011 DEGREE 1 AVG LIFE 15.394160 FIT INDEX 0.006124 VARIANCE 0.332474

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
					FITTED RANGE AGE 0.5 TO 30.5				
31.5					0.16922064		0.05085085	204.62	0.68778622
32.5					0.17415040		0.04224583	211.12	0.69576717
33.5					0.17908015		0.03488871	217.62	0.70342117
34.5					0.18400991		0.02864083	224.11	0.71076880
35.5					0.18893966		0.02337063	230.61	0.71782977
36.5					0.19386941		0.01895499	237.10	0.72462312
37.5					0.19879917		0.01528020	243.60	0.73116758
38.5					0.20372892		0.01224251	250.09	0.73748195
39.5					0.20865867		0.00974836	256.59	0.74358553
40.5					0.21358843		0.00771428	263.09	0.74949876
41.5					0.21851818		0.00606660	269.58	0.75524411
42.5					0.22344793		0.00474094	276.08	0.76084712
43.5					0.22837769		0.00368158	282.57	0.76633797
44.5					0.23330744		0.00284079	289.07	0.77175363
45.5					0.23823719		0.00217801	295.57	0.77714084
46.5					0.24316695		0.00165913	302.06	0.78256045
47.5					0.24809670		0.00125568	308.56	0.78809345
48.5					0.25302645		0.00094415	315.05	0.79384984
49.5					0.25795621		0.00070526	321.55	0.79998125
50.5					0.26288596		0.00052333	328.05	0.80669950
51.5					0.26781571		0.00038576	334.54	0.81430377
52.5					0.27274547		0.00028244	341.04	0.82322053
53.5					0.27767522		0.00020541	347.53	0.83406292
54.5					0.28260497		0.00014837	354.03	0.84771914
55.5					0.28753473		0.00010644	360.53	0.86548537
56.5					0.29246448		0.00007584	367.02	0.88926617
57.5					0.29739423		0.00005366	373.52	0.92187908
58.5							0.00003770	380.01	0.96752015

EQUIVALENT H CURVE IS 1.25

EQUIVALENT L CURVE IS 0.50

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS

Peoples Gas System
Net Salvage Analysis
Account - 391.02 - Office Equipment
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	9,757	0	0	405	4	405	4
2009	0	0	0	0	0	0	0
2008	26,158	0	0	122	0	122	0
2007	166,618	0	0	0	0	0	0
2006	57,077	0	0	0	0	0	0
2005	11,073	0	0	0	0	0	0
2004	25,375	0	0	0	0	0	0
2003	23,741	0	0	0	0	0	0
2002	23,966	(2,614)	(11)	0	0	(2,614)	(11)
2001	10,004	0	0	0	0	0	0
2000	49,498	0	0	0	0	0	0
1999	13,506	0	0	0	0	0	0
1998	46,696	0	0	0	0	0	0
1997	151,024	0	0	4,200	3	4,200	3
1996	5,380	0	0	0	0	0	0
1995	95,066	0	0	200	0	200	0
1994	14,233	0	0	0	0	0	0
1993	6,870	0	0	1,390	20	1,390	20
1992	19,687	0	0	0	0	0	0
1991	65,896	0	0	6,532	10	6,532	10
1990	8,804	0	0	1,084	12	1,084	12
1989	48,430	0	0	375	1	375	1
1988	4,486	0	0	128	3	128	3
1987	39,149	0	0	2,021	5	2,021	5
1986	2,583	(27)	(1)	10	0	(17)	(1)
1985	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	925,076	**(2,641)**	**(0)**	**16,467**	**2**	**13,826**	**1**

Peoples Gas System
Net Salvage Analysis
Account - 391.02 - Office Equipment
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	259,610	0	0	527	0	527	0
2009	260,926	0	0	122	0	122	0
2008	286,301	0	0	122	0	122	0
2007	283,885	0	0	0	0	0	0
2006	141,232	(2,614)	(2)	0	0	(2,614)	(2)
2005	94,158	(2,614)	(3)	0	0	(2,614)	(3)
2004	132,584	(2,614)	(2)	0	0	(2,614)	(2)
2003	120,715	(2,614)	(2)	0	0	(2,614)	(2)
2002	143,669	(2,614)	(2)	0	0	(2,614)	(2)
2001	270,727	0	0	4,200	2	4,200	2
2000	266,103	0	0	4,200	2	4,200	2
1999	311,671	0	0	4,400	1	4,400	1
1998	312,398	0	0	4,400	1	4,400	1
1997	272,572	0	0	5,790	2	5,790	2
1996	141,235	0	0	1,590	1	1,590	1
1995	201,752	0	0	8,122	4	8,122	4
1994	115,490	0	0	9,006	8	9,006	8
1993	149,688	0	0	9,381	6	9,381	6
1992	147,304	0	0	8,119	6	8,119	6
1991	166,766	0	0	10,140	6	10,140	6
1990	103,453	(27)	(0)	3,618	3	3,591	3
1989	94,649	(27)	(0)	2,534	3	2,508	3
1988	46,218	(27)	(0)	2,159	5	2,132	5
1987	41,732	(27)	(0)	2,031	5	2,004	5
1986	2,583	(27)	(1)	10	0	(17)	(1)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300. Stores Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 25.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 0.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.020000	0.	0.
2010	1.50	0.	0.060000	0.	0.
2009	2.50	0.	0.100000	0.	0.
2008	3.50	0.	0.140000	0.	0.
2007	4.50	0.	0.180000	0.	0.
2006	5.50	0.	0.220000	0.	0.
2005	6.50	0.	0.260000	0.	0.
2004	7.50	0.	0.300000	0.	0.
2003	8.50	0.	0.340000	0.	0.
2002	9.50	1416.	0.379981	538.	878.
2001	10.50	2946.	0.419933	1237.	1709.
2000	11.50	0.	0.459782	0.	0.
1999	12.50	0.	0.499407	0.	0.
1998	13.50	0.	0.538597	0.	0.
1997	14.50	0.	0.577056	0.	0.
1996	15.50	0.	0.614390	0.	0.
1995	16.50	0.	0.650187	0.	0.
1994	17.50	0.	0.684032	0.	0.
1993	18.50	0.	0.715588	0.	0.
1992	19.50	0.	0.744626	0.	0.
1991	20.50	0.	0.771041	0.	0.
1990	21.50	0.	0.794839	0.	0.
1989	22.50	0.	0.816130	0.	0.
1988	23.50	0.	0.835085	0.	0.
1987	24.50	0.	0.851913	0.	0.
1986	25.50	2671.	0.866837	2315.	356.
1985	26.50	0.	0.880084	0.	0.
1984	27.50	0.	0.891864	0.	0.
1983	28.50	0.	0.902368	0.	0.
1982	29.50	735.	0.911763	670.	65.
1981	30.50	1299.	0.920205	1195.	104.
1980	31.50	0.	0.927818	0.	0.
1979	32.50	26015.	0.934699	24316.	1699.
1978	33.50	807.	0.940950	759.	48.
1977	34.50	0.	0.946667	0.	0.
1976	35.50	0.	0.951840	0.	0.
1975	36.50	389.	0.956691	372.	17.
1974	37.50	0.	0.961091	0.	0.
1973	38.50	953.	0.965263	920.	33.
1972	39.50	0.	0.969091	0.	0.
1971	40.50	0.	0.980000	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300. Stores Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 25.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 0.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
	1970	41.50	0.	1.000000	0.	0.
	1969	42.50	0.	1.000000	0.	0.
	1968	43.50	139.	1.000000	139.	0.
	1967	44.50	0.	1.000000	0.	0.
	1966	45.50	6816.	1.000000	6816.	0.
	1965	46.50	4726.	1.000000	4726.	0.
SUBTOTAL :				0.899668	44005.	4907.
NET SALVAGE:	0.0%				0.	0.
TOTAL :			48912.	0.899668	44005.	4907.

WEIGHTED AGE: 33.4 YEARS
REMAINING LIFE: 2.5 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300. Stores Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 25.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.040000	0.
2010	1.50 - 2.50	0.	0.040000	0.
2009	2.50 - 3.50	0.	0.040000	0.
2008	3.50 - 4.50	0.	0.040000	0.
2007	4.50 - 5.50	0.	0.040000	0.
2006	5.50 - 6.50	0.	0.040000	0.
2005	6.50 - 7.50	0.	0.040000	0.
2004	7.50 - 8.50	0.	0.040000	0.
2003	8.50 - 9.50	0.	0.040000	0.
2002	9.50 - 10.50	1416.	0.040000	57.
2001	10.50 - 11.50	2946.	0.040000	118.
2000	11.50 - 12.50	0.	0.040000	0.
1999	12.50 - 13.50	0.	0.040000	0.
1998	13.50 - 14.50	0.	0.040000	0.
1997	14.50 - 15.50	0.	0.040000	0.
1996	15.50 - 16.50	0.	0.040000	0.
1995	16.50 - 17.50	0.	0.040000	0.
1994	17.50 - 18.50	0.	0.040000	0.
1993	18.50 - 19.50	0.	0.040000	0.
1992	19.50 - 20.50	0.	0.040000	0.
1991	20.50 - 21.50	0.	0.040000	0.
1990	21.50 - 22.50	0.	0.040000	0.
1989	22.50 - 23.50	0.	0.040000	0.
1988	23.50 - 24.50	0.	0.040000	0.
1987	24.50 - 25.50	0.	0.040000	0.
1986	25.50 - 26.50	2671.	0.040000	107.
1985	26.50 - 27.50	0.	0.040000	0.
1984	27.50 - 28.50	0.	0.040000	0.
1983	28.50 - 29.50	0.	0.040000	0.
1982	29.50 - 30.50	735.	0.040000	29.
1981	30.50 - 31.50	1299.	0.040000	52.
1980	31.50 - 32.50	0.	0.040000	0.
1979	32.50 - 33.50	26015.	0.040000	1041.
1978	33.50 - 34.50	807.	0.040000	32.
1977	34.50 - 35.50	0.	0.040000	0.
1976	35.50 - 36.50	0.	0.040000	0.
1975	36.50 - 37.50	389.	0.040000	16.
1974	37.50 - 38.50	0.	0.040000	0.
1973	38.50 - 39.50	953.	0.040000	38.
1972	39.50 - 40.50	0.	0.040000	0.
1971	40.50 - 41.50	0.	0.040000	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300. Stores Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 25.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	0.	0.040000	0.
1969	42.50 - 43.50	0.	0.040000	0.
1968	43.50 - 44.50	139.	0.040000	6.
1967	44.50 - 45.50	0.	0.040000	0.
1966	45.50 - 46.50	6816.	0.040000	273.
1965	46.50 - 47.50	4726.	0.040000	189.
SUBTOTAL :		48912.	0.040000	1956.
NET SALVAGE: 0.0 %				0.
TOTAL :		48912.	0.040000	1956.

MONTHLY RATE: 0.003333

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300. Stores Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 25.0 YRS CURVE: IOWA S4

I YEAR INSTALLED	II AGE AT 12/31/11	III ORIGINAL COST	IV AVERAGE REMAINING LIFE	V WEIGHTED DOLLAR YEARS
2011	0.50	0.	24.5	0.
2010	1.50	0.	23.5	0.
2009	2.50	0.	22.5	0.
2008	3.50	0.	21.5	0.
2007	4.50	0.	20.5	0.
2006	5.50	0.	19.5	0.
2005	6.50	0.	18.5	0.
2004	7.50	0.	17.5	0.
2003	8.50	0.	16.5	0.
2002	9.50	1416.	15.5	21949.
2001	10.50	2946.	14.5	42722.
2000	11.50	0.	13.5	0.
1999	12.50	0.	12.5	0.
1998	13.50	0.	11.5	0.
1997	14.50	0.	10.6	0.
1996	15.50	0.	9.6	0.
1995	16.50	0.	8.7	0.
1994	17.50	0.	7.9	0.
1993	18.50	0.	7.1	0.
1992	19.50	0.	6.4	0.
1991	20.50	0.	5.7	0.
1990	21.50	0.	5.1	0.
1989	22.50	0.	4.6	0.
1988	23.50	0.	4.1	0.
1987	24.50	0.	3.7	0.
1986	25.50	2671.	3.3	8892.
1985	26.50	0.	3.0	0.
1984	27.50	0.	2.7	0.
1983	28.50	0.	2.4	0.
1982	29.50	735.	2.2	1621.
1981	30.50	1299.	2.0	2591.
1980	31.50	0.	1.8	0.
1979	32.50	26015.	1.6	42470.
1978	33.50	807.	1.5	1191.
1977	34.50	0.	1.3	0.
1976	35.50	0.	1.2	0.
1975	36.50	389.	1.1	421.
1974	37.50	0.	1.0	0.
1973	38.50	953.	0.9	828.
1972	39.50	0.	0.8	0.
1971	40.50	0.	0.5	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300. Stores Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 25.0 YRS CURVE: IOWA S4

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	0.	0.0	0.
1969	42.50	0.	0.0	0.
1968	43.50	139.	0.0	0.
1967	44.50	0.	0.0	0.
1966	45.50	6816.	0.0	0.
1965	46.50	4726.	0.0	0.
TOTAL:		48912.	2.5	122685.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300. Stores Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 25.0 YEARS CURVE: IOWA S4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0200	100.00000	0.00000	50.00000	0.040000	2.00000	2.00000	0.020000
1.50	0.0600	100.00000	0.00000	100.00000	0.040000	4.00000	6.00000	0.060000
2.50	0.1000	100.00000	0.00000	100.00000	0.040000	4.00000	10.00000	0.100000
3.50	0.1400	100.00000	0.00000	100.00000	0.040000	4.00000	14.00000	0.140000
4.50	0.1800	100.00000	0.00000	100.00000	0.040000	4.00000	18.00000	0.180000
5.50	0.2200	100.00000	0.00000	100.00000	0.040000	4.00000	22.00000	0.220000
6.50	0.2600	100.00000	0.00000	100.00000	0.040000	4.00000	26.00000	0.260000
7.50	0.3000	100.00000	0.00000	100.00000	0.040000	4.00000	30.00000	0.300000
8.50	0.3400	100.00000	0.00000	100.00000	0.040000	4.00000	34.00000	0.340000
9.50	0.3800	99.99700	0.00300	99.99850	0.040000	3.99994	37.99694	0.379981
10.50	0.4200	99.98900	0.00800	99.99300	0.040000	3.99972	41.98866	0.419933
11.50	0.4600	99.96200	0.02700	99.97550	0.040000	3.99902	45.96068	0.459782
12.50	0.5000	99.89000	0.07200	99.92600	0.040000	3.99704	49.88572	0.499407
13.50	0.5400	99.72200	0.16800	99.80600	0.040000	3.99224	53.70996	0.538597
14.50	0.5800	99.37500	0.34700	99.54850	0.040000	3.98194	57.34490	0.577056
15.50	0.6200	98.72200	0.65300	99.04850	0.040000	3.96194	60.65384	0.614390
16.50	0.6600	97.60000	1.12200	98.16100	0.040000	3.92644	63.45828	0.650187
17.50	0.7000	95.81200	1.78800	96.70600	0.040000	3.86824	65.53852	0.684032
18.50	0.7400	93.15400	2.65800	94.48300	0.040000	3.77932	66.65984	0.715588
19.50	0.7800	89.44600	3.70800	91.30000	0.040000	3.65200	66.60384	0.744626
20.50	0.8200	84.56500	4.88100	87.00550	0.040000	3.48022	65.20306	0.771041
21.50	0.8600	78.48000	6.08500	81.52250	0.040000	3.26090	62.37896	0.794839
22.50	0.9000	71.27800	7.20200	74.87900	0.040000	2.99516	58.17212	0.816130
23.50	0.9400	63.16600	8.11200	67.22200	0.040000	2.68888	52.74900	0.835085
24.50	0.9800	54.45800	8.70800	58.81200	0.040000	2.35248	46.39348	0.851913
25.50	1.0200	45.54200	8.91600	50.00000	0.040000	2.00000	39.47748	0.866837
26.50	1.0600	36.83400	8.70800	41.18800	0.040000	1.64752	32.41700	0.880084
27.50	1.1000	28.72200	8.11200	32.77800	0.040000	1.31112	25.61612	0.891864
28.50	1.1400	21.52000	7.20200	25.12100	0.040000	1.00484	19.41896	0.902368
29.50	1.1800	15.43500	6.08500	18.47750	0.040000	0.73910	14.07306	0.911763
30.50	1.2200	10.55400	4.88100	12.99450	0.040000	0.51978	9.71184	0.920205
31.50	1.2600	6.84600	3.70800	8.70000	0.040000	0.34800	6.35184	0.927818
32.50	1.3000	4.18800	2.65800	5.51700	0.040000	0.22068	3.91452	0.934699
33.50	1.3400	2.40000	1.78800	3.29400	0.040000	0.13176	2.25828	0.940950
34.50	1.3800	1.27800	1.12200	1.83900	0.040000	0.07356	1.20984	0.946667
35.50	1.4200	0.62500	0.65300	0.95150	0.040000	0.03806	0.59490	0.951840
36.50	1.4600	0.27800	0.34700	0.45150	0.040000	0.01806	0.26596	0.956691
37.50	1.5000	0.11000	0.16800	0.19400	0.040000	0.00776	0.10572	0.961091
38.50	1.5400	0.03800	0.07200	0.07400	0.040000	0.00296	0.03668	0.965263

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300. Stores Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 25.0 YEARS CURVE: IOWA S4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.5800	0.01100	0.02700	0.02450	0.040000	0.00098	0.01066	0.969091
40.50	1.6200	0.00300	0.00800	0.00700	0.040000	0.00028	0.00294	0.980000
41.50	1.6600	0.00000	0.00300	0.00150	0.040000	0.00006	0.00000	1.000000
		2500.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300 Stores Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	0.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	0.	0.	0.	0.	0.	0.	0.	0.	0
2007	0.	0.	0.	0.	0.	0.	0.	0.	0
2006	0.	0.	0.	0.	0.	0.	0.	0.	0
2005	0.	0.	0.	0.	0.	0.	0.	0.	0
2004	0.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	1416.	0.	0.	0.	0.	0.	0.	0.	0
2001	2946.	0.	0.	0.	0.	0.	0.	0.	0
2000	0.	0.	0.	0.	0.	0.	0.	0.	0
1999	0.	0.	0.	0.	0.	0.	0.	0.	0
1998	0.	0.	0.	0.	0.	0.	0.	0.	0
1997	0.	0.	0.	0.	0.	0.	0.	0.	0
1996	0.	0.	0.	0.	0.	0.	0.	0.	0
1995	0.	0.	0.	0.	0.	0.	0.	0.	0
1994	0.	0.	0.	0.	0.	0.	0.	0.	0
1993	0.	0.	0.	0.	0.	0.	0.	0.	0
1992	0.	0.	0.	0.	0.	0.	0.	0.	0
1991	0.	0.	0.	0.	0.	0.	710.	0.	0
1990	0.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	0.	0.	0.	0.	0.	0.	0.	0.	0
1987	0.	0.	0.	0.	0.	0.	0.	0.	0
1986	2671.	0.	0.	0.	0.	0.	0.	0.	0
1985	0.	0.	0.	0.	0.	0.	0.	0.	0
1984	0.	0.	0.	0.	0.	0.	0.	0.	0
1983	0.	0.	0.	0.	0.	0.	0.	0.	0
1982	735.	0.	0.	0.	0.	0.	0.	0.	0
1981	1299.	0.	0.	0.	0.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	3946
1979	26015.	0.	0.	0.	0.	0.	0.	0.	0
1978	807.	0.	0.	0.	0.	0.	0.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	539
1976	0.	0.	0.	0.	0.	0.	0.	0.	0
1975	389.	0.	0.	0.	0.	0.	0.	0.	0
1974	0.	0.	0.	0.	0.	0.	0.	0.	0
1973	953.	0.	0.	0.	0.	0.	0.	0.	0
1972	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39300 Stores Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	0.	0.	0.	0.	0.	0.	0.	0.	0
1968	139.	0.	0.	0.	0.	0.	0.	0.	0
1967	0.	0.	0.	0.	0.	6850.	0.	0.	0
1966	6816.	0.	0.	0.	0.	0.	0.	0.	0
1965	4726.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	48912.	0.	0.	0.	0.	6850.	710.	0.	4485

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300 Stores Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	0.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	0.	0.	0.	0.	0.	0.	0.	0.	0
2007	0.	0.	0.	0.	0.	0.	0.	0.	0
2006	0.	0.	0.	0.	0.	0.	0.	0.	0
2005	0.	0.	0.	0.	0.	0.	0.	0.	0
2004	0.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	1416.	0.	0.	0.	0.	0.	0.	0.	0
2001	2946.	0.	0.	0.	0.	0.	0.	0.	0
2000	0.	0.	0.	0.	0.	0.	0.	0.	0
1999	0.	0.	0.	0.	0.	0.	0.	0.	0
1998	0.	0.	0.	0.	0.	0.	0.	0.	0
1997	0.	0.	0.	0.	0.	0.	0.	0.	0
1996	0.	0.	0.	0.	0.	0.	0.	0.	0
1995	0.	0.	0.	0.	0.	0.	0.	0.	0
1994	0.	0.	0.	0.	0.	0.	0.	0.	0
1993	0.	0.	0.	0.	0.	0.	0.	0.	0
1992	0.	0.	0.	0.	0.	0.	0.	0.	0
1991	0.	0.	0.	0.	0.	0.	0.	0.	0
1990	0.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	0.	0.	0.	0.	0.	0.	0.	0.	0
1987	0.	0.	0.	0.	2207.	0.	0.	0.	0
1986	2671.	0.	0.	3509.	0.	0.	0.	0.	0
1985	0.	0.	0.	0.	0.	0.	0.	0.	0
1984	0.	0.	0.	0.	0.	0.	0.	0.	0
1983	0.	0.	0.	0.	0.	0.	0.	0.	0
1982	735.	0.	0.	0.	0.	0.	0.	0.	0
1981	1299.	0.	0.	0.	0.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	26015.	0.	0.	0.	0.	0.	0.	0.	0
1978	807.	0.	0.	0.	0.	0.	0.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	0
1976	0.	0.	0.	0.	0.	0.	0.	0.	0
1975	389.	0.	0.	0.	0.	0.	0.	0.	0
1974	0.	0.	0.	0.	0.	0.	0.	0.	0
1973	953.	0.	0.	0.	0.	2707.	0.	0.	0
1972	0.	0.	0.	0.	0.	1570.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39300 Stores Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	213.	0.	0.	0
1969	0.	0.	0.	0.	0.	0.	0.	0.	0
1968	139.	0.	0.	0.	0.	0.	0.	0.	0
1967	0.	0.	0.	0.	0.	0.	0.	0.	0
1966	6816.	0.	0.	0.	0.	0.	0.	0.	0
1965	4726.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	48912.	0.	0.	3509.	2207.	4490.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300 Stores Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS					
		1995	1994	1993	1992	1991	1990
2011	0.	0.	0.	0.	0.	0.	0.
2010	0.	0.	0.	0.	0.	0.	0.
2009	0.	0.	0.	0.	0.	0.	0.
2008	0.	0.	0.	0.	0.	0.	0.
2007	0.	0.	0.	0.	0.	0.	0.
2006	0.	0.	0.	0.	0.	0.	0.
2005	0.	0.	0.	0.	0.	0.	0.
2004	0.	0.	0.	0.	0.	0.	0.
2003	0.	0.	0.	0.	0.	0.	0.
2002	1416.	0.	0.	0.	0.	0.	0.
2001	2946.	0.	0.	0.	0.	0.	0.
2000	0.	0.	0.	0.	0.	0.	0.
1999	0.	0.	0.	0.	0.	0.	0.
1998	0.	0.	0.	0.	0.	0.	0.
1997	0.	0.	0.	0.	0.	0.	0.
1996	0.	0.	0.	0.	0.	0.	0.
1995	0.	0.	0.	0.	0.	0.	0.
1994	0.	0.	0.	0.	0.	0.	0.
1993	0.	0.	0.	0.	0.	0.	0.
1992	0.	0.	0.	0.	0.	0.	0.
1991	0.	0.	0.	0.	0.	0.	0.
1990	0.	0.	0.	0.	0.	0.	0.
1989	0.	0.	0.	0.	0.	0.	0.
1988	0.	0.	0.	0.	0.	0.	0.
1987	0.	0.	0.	0.	0.	5916.	0.
1986	2671.	0.	2518.	0.	0.	0.	0.
1985	0.	0.	0.	0.	0.	0.	175.
1984	0.	0.	0.	0.	0.	0.	0.
1983	0.	0.	0.	0.	0.	0.	0.
1982	735.	0.	0.	0.	0.	0.	0.
1981	1299.	0.	0.	0.	0.	0.	0.
1980	0.	0.	0.	0.	146.	0.	0.
1979	26015.	0.	490.	0.	0.	0.	0.
1978	807.	0.	284.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.
1975	389.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	581.	0.
1973	953.	0.	0.	0.	0.	1672.	0.
1972	0.	0.	0.	0.	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300 Stores Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS					
		1995	1994	1993	1992	1991	1990
1971	0.	0.	374.	0.	0.	0.	0.
1970	0.	0.	0.	0.	0.	202.	0.
1969	0.	0.	584.	0.	0.	0.	0.
1968	139.	0.	0.	0.	0.	584.	0.
1967	0.	0.	0.	0.	0.	0.	0.
1966	6816.	0.	0.	0.	0.	7679.	0.
1965	4726.	0.	3461.	0.	0.	514.	0.
TOTAL	48912.	0.	7711.	0.	146.	17148.	175.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39300 Stores Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1990 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	5073.	0.	0.00000000	1.00000000	1.00000000
0.5	5073.	0.	0.00000000	1.00000000	1.00000000
1.5	5073.	0.	0.00000000	1.00000000	1.00000000
2.5	13196.	0.	0.00000000	1.00000000	1.00000000
3.5	21894.	5916.	0.27021102	0.72978898	1.00000000
4.5	16153.	175.	0.01083390	0.98916610	0.72978898
5.5	15978.	0.	0.00000000	1.00000000	0.72188252
6.5	15978.	0.	0.00000000	1.00000000	0.72188252
7.5	16713.	2518.	0.15066116	0.84933884	0.72188252
8.5	15493.	0.	0.00000000	1.00000000	0.61312286
9.5	18169.	0.	0.00000000	1.00000000	0.61312286
10.5	41729.	0.	0.00000000	1.00000000	0.61312286
11.5	42820.	146.	0.00340962	0.99659038	0.61312286
12.5	43213.	2207.	0.05107259	0.94892741	0.61103235
13.5	41006.	0.	0.00000000	1.00000000	0.57982534
14.5	41395.	4709.	0.11375770	0.88624230	0.57982534
15.5	37267.	284.	0.00762068	0.99237932	0.51386574
16.5	42315.	581.	0.01373036	0.98626964	0.50994973
17.5	43304.	1672.	0.03861075	0.96138925	0.50294794
18.5	42006.	0.	0.00000000	1.00000000	0.48352874
19.5	42421.	0.	0.00000000	1.00000000	0.48352874
20.5	43005.	202.	0.00469713	0.99530287	0.48352874
21.5	43526.	0.	0.00000000	1.00000000	0.48125755
22.5	50376.	958.	0.01901699	0.98098301	0.48125755
23.5	63913.	3946.	0.06174018	0.93825982	0.47210548
24.5	68667.	8263.	0.12033437	0.87966563	0.44295760
25.5	57734.	3221.	0.05579035	0.94420965	0.38965458
26.5	54513.	2109.	0.03868802	0.96131198	0.36791561
27.5	52404.	0.	0.00000000	1.00000000	0.35368169
28.5	52403.	3674.	0.07011049	0.92988951	0.35368169
29.5	47994.	0.	0.00000000	1.00000000	0.32888489
30.5	46696.	0.	0.00000000	1.00000000	0.32888489
31.5	46695.	0.	0.00000000	1.00000000	0.32888489
32.5	20680.	0.	0.00000000	1.00000000	0.32888489
33.5	19874.	0.	0.00000000	1.00000000	0.32888489
34.5	19874.	0.	0.00000000	1.00000000	0.32888489
35.5	19873.	0.	0.00000000	1.00000000	0.32888489
36.5	19485.	0.	0.00000000	1.00000000	0.32888489
37.5	19484.	0.	0.00000000	1.00000000	0.32888489
38.5	18532.	0.	0.00000000	1.00000000	0.32888489

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39300 Stores Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1990 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	18532.	6850.	0.36963091	0.63036909	0.32888489
40.5	11682.	0.	0.00000000	1.00000000	0.20731887
41.5	11682.	0.	0.00000000	1.00000000	0.20731887
42.5	11681.	0.	0.00000000	1.00000000	0.20731887
43.5	11543.	0.	0.00000000	1.00000000	0.20731887
44.5	11542.	0.	0.00000000	1.00000000	0.20731887
45.5	4726.	0.	0.00000000	1.00000000	0.20731887
TOTAL		47431.			22.30011941

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39300 Stores Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	16.81	0.017414	532.29	-0.09	0.00	SC	0.50
1991	1995	15.39	0.021336	672.43	-1.34	0.00	SC	0.50
1992	1996	35.89	0.008067	402.63	1.03	0.00	SC	0.50
1993	1997	37.37	0.008540	464.31	0.47	0.00	SC	0.50
1994	1998	41.09	0.008324	707.02	-1.70	0.00	SC	0.50
1995	1999	44.29	0.013134	283.34	2.55	3.00	1.00	2.00
1996	2000	46.04	0.013641	735.27	-2.01	0.00	SC	0.50
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	35.25	0.015664	290.75	2.44	2.00	1.00	1.50
2004	2008	34.09	0.020693	312.40	2.12	2.00	0.50	1.50
2005	2009	43.01	0.015581	245.32	3.32	3.00	2.00	3.00
2006	2010	43.46	0.018112	247.34	3.25	3.00	2.00	2.50
2007	2011	44.89	0.023943	232.82	3.60	4.00	3.00	3.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39300 Stores Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	44.89	0.023940	232.81	3.60	4.00	3.00	3.00
2006	2011	46.31	0.016774	255.88	3.06	3.00	2.00	2.50
2005	2011	48.35	0.013633	259.56	3.00	3.00	2.00	2.50
2004	2011	39.44	0.015813	371.46	1.37	0.50	SC	0.50
2003	2011	43.04	0.012543	344.99	1.68	1.00	-0.50	0.50
2002	2011	45.77	0.011870	328.81	1.89	1.50	0.00	1.00
2001	2011	37.96	0.013909	818.06	-2.60	0.00	SC	0.50
2000	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	38.44	0.012069	958.65	-2.60	0.00	SC	0.50
1996	2011	39.65	0.011295	649.50	-1.11	0.00	SC	0.50
1995	2011	41.15	0.010247	543.19	-0.18	0.00	SC	0.50
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	36.72	0.008805	725.68	-1.88	0.00	SC	0.50
1992	2011	37.77	0.008294	594.43	-0.62	0.00	SC	0.50
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39300 Stores Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	9.68	0.016390	459.50	-2.60	0.00	SC	0.50
1991	1995	6.93	0.020446	642.05	-2.60	0.00	SC	0.50
1992	1996	20.91	0.007838	289.29	-0.29	0.00	SC	0.50
1993	1997	19.06	0.008337	322.67	-1.69	0.00	SC	0.50
1994	1998	16.20	0.008078	385.74	-2.60	0.00	SC	0.50
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	21.83	0.017609	597.86	-2.60	0.00	SC	0.50
1998	2002	77.39	0.017865	514.89	-2.60	0.00	SC	0.50
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	30.47	0.015735	251.09	1.56	1.00	-0.50	0.50
2004	2008	29.19	0.020886	279.17	1.28	0.50	SC	0.50
2005	2009	38.59	0.015559	193.05	2.49	2.00	1.00	2.00
2006	2010	39.71	0.018218	197.68	2.60	3.00	1.00	2.00
2007	2011	44.79	0.024207	184.19	4.73	4.00	4.00	4.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39300 Stores Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	44.79	0.024205	184.19	4.73	4.00	4.00	4.00
2006	2011	42.78	0.016916	199.87	2.86	3.00	1.50	2.50
2005	2011	44.23	0.013728	197.83	2.98	3.00	1.50	2.50
2004	2011	36.68	0.015993	312.16	1.30	0.50	SC	0.50
2003	2011	39.15	0.012681	284.77	1.58	1.00	-0.50	0.50
2002	2011	41.00	0.011996	264.64	1.80	1.50	0.00	1.00
2001	2011	29.26	0.014055	381.10	-0.58	0.00	SC	0.50
2000	2011	23.85	0.015290	433.90	-2.60	0.00	SC	0.50
1999	2011	26.02	0.013491	505.29	-2.60	0.00	SC	0.50
1998	2011	27.91	0.012972	438.87	-1.60	0.00	SC	0.50
1997	2011	29.91	0.012201	396.25	-0.66	0.00	SC	0.50
1996	2011	31.91	0.011417	365.07	-0.09	0.00	SC	0.50
1995	2011	33.88	0.010356	340.93	0.33	0.00	SC	0.50
1994	2011	26.89	0.009345	403.45	-1.09	0.00	SC	0.50
1993	2011	29.41	0.008893	375.69	-0.34	0.00	SC	0.50
1992	2011	31.55	0.008379	359.70	0.11	0.00	SC	0.50
1991	2011	19.26	0.010712	490.59	-2.60	0.00	SC	0.50
1990	2011	22.08	0.009397	450.64	-2.60	0.00	SC	0.50

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39300 Stores Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	23.20	0.007881	213.40	0.90	0.00	SC	0.50
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	17.08	0.018063	401.06	-2.60	0.00	SC	0.50
1999	2003	15.35	0.018639	381.12	-2.60	0.00	SC	0.50
2000	2004	11.13	0.016250	471.57	-1.90	0.00	SC	0.50
2001	2005	14.16	0.012874	391.81	-1.26	0.00	SC	0.50
2002	2006	29.33	0.009125	247.17	0.45	0.00	SC	0.50
2003	2007	17.52	0.015323	311.15	0.19	0.00	SC	0.50
2004	2008	20.01	0.020887	287.33	0.67	0.00	SC	0.50
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39300 Stores Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	33.73	0.016170	229.80	1.62	1.00	-0.50	0.50
2003	2011	36.13	0.012820	220.05	1.81	1.50	0.00	1.00
2002	2011	38.12	0.012129	211.18	2.00	1.50	0.00	1.00
2001	2011	25.45	0.014053	261.31	0.49	0.00	SC	0.50
2000	2011	22.56	0.015247	285.87	-0.09	0.00	SC	0.50
1999	2011	24.38	0.013507	276.91	0.32	0.00	SC	0.50
1998	2011	27.10	0.013028	256.42	0.66	0.00	SC	0.50
1997	2011	29.59	0.012275	241.62	0.95	0.00	SC	0.50
1996	2011	31.84	0.011498	227.69	1.22	0.50	SC	0.50
1995	2011	33.85	0.010434	220.09	1.47	1.00	-0.50	0.50
1994	2011	26.97	0.009441	294.82	0.07	0.00	SC	0.50
1993	2011	29.30	0.008987	278.19	0.48	0.00	SC	0.50
1992	2011	31.24	0.008468	264.12	0.81	0.00	SC	0.50
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

Peoples Gas System
Net Salvage Analysis
Account - 393.00 - Stores Equipment
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0
2007	6,850	0	0	2,500	36	2,500	36
2006	710	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2004	4,610	0	0	0	0	0	0
2003	3,562	0	0	0	0	0	0
2002	0	0	0	0	0	0	0
2001	8,777	0	0	0	0	0	0
2000	2,207	0	0	0	0	0	0
1999	4,490	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1994	7,711	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	146	0	0	0	0	0	0
1991	18,135	0	0	0	0	0	0
1990	175	0	0	140	80	140	80
1989	71	0	0	0	0	0	0
1988	0	0	0	0	0	0	0
1987	2,517	0	0	0	0	0	0
1986	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	59,961	**0**	**0**	**2,640**	**4**	**2,640**	**4**

Peoples Gas System
Net Salvage Analysis
Account - 393.00 - Stores Equipment
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	7,560	0	0	2,500	33	2,500	33
2009	7,560	0	0	2,500	33	2,500	33
2008	12,170	0	0	2,500	21	2,500	21
2007	15,732	0	0	2,500	16	2,500	16
2006	8,882	0	0	0	0	0	0
2005	16,949	0	0	0	0	0	0
2004	19,155	0	0	0	0	0	0
2003	19,035	0	0	0	0	0	0
2002	15,474	0	0	0	0	0	0
2001	15,474	0	0	0	0	0	0
2000	6,697	0	0	0	0	0	0
1999	4,490	0	0	0	0	0	0
1998	7,711	0	0	0	0	0	0
1997	7,711	0	0	0	0	0	0
1996	7,857	0	0	0	0	0	0
1995	25,992	0	0	0	0	0	0
1994	26,167	0	0	140	1	140	1
1993	18,527	0	0	140	1	140	1
1992	18,527	0	0	140	1	140	1
1991	20,898	0	0	140	1	140	1
1990	2,763	0	0	140	5	140	5
1989	2,588	0	0	0	0	0	0
1988	2,517	0	0	0	0	0	0
1987	2,517	0	0	0	0	0	0
1986	0	0	0	0	0	0	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400. Tools, Shop & Garage Equip

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	1100250.	0.033255	36588.	1063662.
2010	1.50	162112.	0.098519	15971.	146141.
2009	2.50	229911.	0.160974	37010.	192901.
2008	3.50	77877.	0.219957	17130.	60747.
2007	4.50	120829.	0.275244	33257.	87572.
2006	5.50	102557.	0.326833	33519.	69038.
2005	6.50	102633.	0.374924	38480.	64153.
2004	7.50	79888.	0.419760	33534.	46354.
2003	8.50	89938.	0.461590	41514.	48424.
2002	9.50	132012.	0.500714	66100.	65912.
2001	10.50	102351.	0.537393	55003.	47348.
2000	11.50	175796.	0.571864	100531.	75265.
1999	12.50	82617.	0.604369	49931.	32686.
1998	13.50	112654.	0.635103	71547.	41107.
1997	14.50	111644.	0.664252	74160.	37484.
1996	15.50	218780.	0.691970	151389.	67391.
1995	16.50	310959.	0.718413	223397.	87562.
1994	17.50	293168.	0.743700	218029.	75139.
1993	18.50	229803.	0.767945	176476.	53327.
1992	19.50	150076.	0.791233	118745.	31331.
1991	20.50	155948.	0.813667	126890.	29058.
1990	21.50	89306.	0.835305	74598.	14708.
1989	22.50	54074.	0.856185	46297.	7777.
1988	23.50	191538.	0.876398	167864.	23674.
1987	24.50	42295.	0.895920	37893.	4402.
1986	25.50	52255.	0.914689	47797.	4458.
1985	26.50	35440.	0.932714	33055.	2385.
1984	27.50	45334.	0.949583	43048.	2286.
1983	28.50	13157.	0.964135	12685.	472.
1982	29.50	29813.	0.983335	29316.	497.
1981	30.50	26659.	1.000000	26659.	0.
1980	31.50	8498.	1.000000	8498.	0.
1979	32.50	9115.	1.000000	9115.	0.
1978	33.50	16028.	1.000000	16028.	0.
1977	34.50	4322.	1.000000	4322.	0.
1976	35.50	2896.	1.000000	2896.	0.
1975	36.50	2671.	1.000000	2671.	0.
1974	37.50	2482.	1.000000	2482.	0.
1973	38.50	3696.	1.000000	3696.	0.
1972	39.50	139.	1.000000	139.	0.
1971	40.50	0.	1.000000	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400. Tools, Shop & Garage Equip

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 0.

I YEAR	II AGE AT 12/31/11	III ORIGINAL COST AT 12/31/11	IV DEPRECIATION RESERVE RATIO	V CALCULATED DEPRECIATION RESERVE	VI ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	2859.	1.000000	2859.	0.
1969	42.50	11571.	1.000000	11571.	0.
1968	43.50	4226.	1.000000	4226.	0.
1967	44.50	952.	1.000000	952.	0.
1966	45.50	0.	1.000000	0.	0.
1965	46.50	0.	1.000000	0.	0.
1964	47.50	290.	1.000000	290.	0.
1963	48.50	0.	1.000000	0.	0.
1962	49.50	0.	1.000000	0.	0.
1961	50.50	0.	1.000000	0.	0.
1960	51.50	918.	1.000000	918.	0.
1959	52.50	286.	1.000000	286.	0.
1958	53.50	0.	1.000000	0.	0.
1957	54.50	0.	1.000000	0.	0.
1956	55.50	0.	1.000000	0.	0.
1955	56.50	0.	1.000000	0.	0.
1954	57.50	0.	1.000000	0.	0.
1953	58.50	0.	1.000000	0.	0.
1952	59.50	0.	1.000000	0.	0.
1951	60.50	0.	1.000000	0.	0.
1950	61.50	0.	1.000000	0.	0.
1949	62.50	140.	1.000000	140.	0.
SUBTOTAL :			0.481873	2309504.	2483259.
NET SALVAGE: 0.0%				0.	0.
TOTAL :		4792763.	0.481873	2309504.	2483259.

WEIGHTED AGE: 11.3 YEARS
REMAINING LIFE: 7.8 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400. Tools, Shop & Garage Equip

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	1100250.	0.066667	73350.
2010	1.50 - 2.50	162112.	0.066667	10807.
2009	2.50 - 3.50	229911.	0.066667	15327.
2008	3.50 - 4.50	77877.	0.066667	5192.
2007	4.50 - 5.50	120829.	0.066667	8055.
2006	5.50 - 6.50	102557.	0.066667	6837.
2005	6.50 - 7.50	102633.	0.066667	6842.
2004	7.50 - 8.50	79888.	0.066667	5326.
2003	8.50 - 9.50	89938.	0.066667	5996.
2002	9.50 - 10.50	132012.	0.066667	8801.
2001	10.50 - 11.50	102351.	0.066667	6823.
2000	11.50 - 12.50	175796.	0.066667	11720.
1999	12.50 - 13.50	82617.	0.066667	5508.
1998	13.50 - 14.50	112654.	0.066667	7510.
1997	14.50 - 15.50	111644.	0.066667	7443.
1996	15.50 - 16.50	218780.	0.066667	14585.
1995	16.50 - 17.50	310959.	0.066667	20731.
1994	17.50 - 18.50	293168.	0.066667	19545.
1993	18.50 - 19.50	229803.	0.066667	15320.
1992	19.50 - 20.50	150076.	0.066667	10005.
1991	20.50 - 21.50	155948.	0.066667	10397.
1990	21.50 - 22.50	89306.	0.066667	5954.
1989	22.50 - 23.50	54074.	0.066667	3605.
1988	23.50 - 24.50	191538.	0.066667	12769.
1987	24.50 - 25.50	42295.	0.066667	2820.
1986	25.50 - 26.50	52255.	0.066667	3484.
1985	26.50 - 27.50	35440.	0.066667	2363.
1984	27.50 - 28.50	45334.	0.066667	3022.
1983	28.50 - 29.50	13157.	0.066667	877.
1982	29.50 - 30.50	29813.	0.066667	1988.
1981	30.50 - 31.50	26659.	0.066667	1777.
1980	31.50 - 32.50	8498.	0.066667	567.
1979	32.50 - 33.50	9115.	0.066667	608.
1978	33.50 - 34.50	16028.	0.066667	1069.
1977	34.50 - 35.50	4322.	0.066667	288.
1976	35.50 - 36.50	2896.	0.066667	193.
1975	36.50 - 37.50	2671.	0.066667	178.
1974	37.50 - 38.50	2482.	0.066667	165.
1973	38.50 - 39.50	3696.	0.066667	246.
1972	39.50 - 40.50	139.	0.066667	9.
1971	40.50 - 41.50	0.	0.066667	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400. Tools, Shop & Garage Equip

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
1970	41.50 - 42.50	2859.	0.066667	191.
1969	42.50 - 43.50	11571.	0.066667	771.
1968	43.50 - 44.50	4226.	0.066667	282.
1967	44.50 - 45.50	952.	0.066667	63.
1966	45.50 - 46.50	0.	0.066667	0.
1965	46.50 - 47.50	0.	0.066667	0.
1964	47.50 - 48.50	290.	0.066667	19.
1963	48.50 - 49.50	0.	0.066667	0.
1962	49.50 - 50.50	0.	0.066667	0.
1961	50.50 - 51.50	0.	0.066667	0.
1960	51.50 - 52.50	918.	0.066667	61.
1959	52.50 - 53.50	286.	0.066667	19.
1958	53.50 - 54.50	0.	0.066667	0.
1957	54.50 - 55.50	0.	0.066667	0.
1956	55.50 - 56.50	0.	0.066667	0.
1955	56.50 - 57.50	0.	0.066667	0.
1954	57.50 - 58.50	0.	0.066667	0.
1953	58.50 - 59.50	0.	0.066667	0.
1952	59.50 - 60.50	0.	0.066667	0.
1951	60.50 - 61.50	0.	0.066667	0.
1950	61.50 - 62.50	0.	0.066667	0.
1949	62.50 - 63.50	140.	0.066667	9.
SUBTOTAL :		4792763.	0.066667	319518.
NET SALVAGE: 0.0 %				0.
TOTAL :		4792763.	0.066667	319518.

MONTHLY RATE: 0.005556

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39400. Tools, Shop & Garage Equip

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 15.0 YRS CURVE: IOWA S1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	1100250.	14.5	15954924.
2010	1.50	162112.	13.5	2192113.
2009	2.50	229911.	12.6	2893519.
2008	3.50	77877.	11.7	911211.
2007	4.50	120829.	10.9	1313573.
2006	5.50	102557.	10.1	1035570.
2005	6.50	102633.	9.4	962301.
2004	7.50	79888.	8.7	695313.
2003	8.50	89938.	8.1	726353.
2002	9.50	132012.	7.5	988676.
2001	10.50	102351.	6.9	710224.
2000	11.50	175796.	6.4	1128968.
1999	12.50	82617.	5.9	490288.
1998	13.50	112654.	5.5	616606.
1997	14.50	111644.	5.0	562264.
1996	15.50	218780.	4.6	1010861.
1995	16.50	310959.	4.2	1313431.
1994	17.50	293168.	3.8	1127083.
1993	18.50	229803.	3.5	799902.
1992	19.50	150076.	3.1	469963.
1991	20.50	155948.	2.8	435873.
1990	21.50	89306.	2.5	220624.
1989	22.50	54074.	2.2	116650.
1988	23.50	191538.	1.9	355117.
1987	24.50	42295.	1.6	66031.
1986	25.50	52255.	1.3	66869.
1985	26.50	35440.	1.0	35769.
1984	27.50	45334.	0.8	34284.
1983	28.50	13157.	0.5	7078.
1982	29.50	29813.	0.2	7452.
1981	30.50	26659.	0.0	0.
1980	31.50	8498.	0.0	0.
1979	32.50	9115.	0.0	0.
1978	33.50	16028.	0.0	0.
1977	34.50	4322.	0.0	0.
1976	35.50	2896.	0.0	0.
1975	36.50	2671.	0.0	0.
1974	37.50	2482.	0.0	0.
1973	38.50	3696.	0.0	0.
1972	39.50	139.	0.0	0.
1971	40.50	0.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400. Tools, Shop & Garage Equip

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 15.0 YRS CURVE: IOWA S1

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	2859.	0.0	0.
1969	42.50	11571.	0.0	0.
1968	43.50	4226.	0.0	0.
1967	44.50	952.	0.0	0.
1966	45.50	0.	0.0	0.
1965	46.50	0.	0.0	0.
1964	47.50	290.	0.0	0.
1963	48.50	0.	0.0	0.
1962	49.50	0.	0.0	0.
1961	50.50	0.	0.0	0.
1960	51.50	918.	0.0	0.
1959	52.50	286.	0.0	0.
1958	53.50	0.	0.0	0.
1957	54.50	0.	0.0	0.
1956	55.50	0.	0.0	0.
1955	56.50	0.	0.0	0.
1954	57.50	0.	0.0	0.
1953	58.50	0.	0.0	0.
1952	59.50	0.	0.0	0.
1951	60.50	0.	0.0	0.
1950	61.50	0.	0.0	0.
1949	62.50	140.	0.0	0.
TOTAL:		4792763.	7.8	37248890.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400. Tools, Shop & Garage Equip

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 15.0 YEARS CURVE: IOWA S1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0333	99.99200	0.00800	49.99800	0.066667	3.33320	3.32520	0.033255
1.50	0.1000	99.84200	0.15000	99.91700	0.066667	6.66113	9.83633	0.098519
2.50	0.1667	99.36000	0.48200	99.60100	0.066667	6.64007	15.99440	0.160974
3.50	0.2333	98.42133	0.93867	98.89067	0.066667	6.59271	21.64844	0.219957
4.50	0.3000	96.94400	1.47733	97.68267	0.066667	6.51218	26.68329	0.275244
5.50	0.3667	94.87500	2.06900	95.90950	0.066667	6.39397	31.00826	0.326833
6.50	0.4333	92.19833	2.67667	93.53667	0.066667	6.23578	34.56737	0.374924
7.50	0.5000	88.91800	3.28033	90.55817	0.066667	6.03721	37.32424	0.419760
8.50	0.5667	85.05533	3.86267	86.98667	0.066667	5.79911	39.26069	0.461590
9.50	0.6333	80.65700	4.39833	82.85617	0.066667	5.52374	40.38610	0.500714
10.50	0.7000	75.78000	4.87700	78.21850	0.066667	5.21457	40.72366	0.537393
11.50	0.7667	70.49300	5.28700	73.13650	0.066667	4.87577	40.31243	0.571864
12.50	0.8333	64.87900	5.61400	67.68600	0.066667	4.51240	39.21083	0.604369
13.50	0.9000	59.02500	5.85400	61.95200	0.066667	4.13013	37.48697	0.635103
14.50	0.9667	53.02500	6.00000	56.02500	0.066667	3.73500	35.22197	0.664252
15.50	1.0333	46.97500	6.05000	50.00000	0.066667	3.33333	32.50530	0.691970
16.50	1.1000	40.97500	6.00000	43.97500	0.066667	2.93167	29.43696	0.718413
17.50	1.1667	35.12100	5.85400	38.04800	0.066667	2.53653	26.11950	0.743700
18.50	1.2333	29.50700	5.61400	32.31400	0.066667	2.15427	22.65977	0.767945
19.50	1.3000	24.22000	5.28700	26.86350	0.066667	1.79090	19.16367	0.791233
20.50	1.3667	19.34300	4.87700	21.78150	0.066667	1.45210	15.73877	0.813667
21.50	1.4333	14.94467	4.39833	17.14383	0.066667	1.14292	12.48336	0.835305
22.50	1.5000	11.08200	3.86267	13.01333	0.066667	0.86756	9.48824	0.856185
23.50	1.5667	7.80167	3.28033	9.44183	0.066667	0.62946	6.83737	0.876398
24.50	1.6333	5.12500	2.67667	6.46333	0.066667	0.43089	4.59159	0.895920
25.50	1.7000	3.05600	2.06900	4.09050	0.066667	0.27270	2.79529	0.914689
26.50	1.7667	1.57867	1.47733	2.31733	0.066667	0.15449	1.47244	0.932714
27.50	1.8333	0.64000	0.93867	1.10933	0.066667	0.07396	0.60773	0.949583
28.50	1.9000	0.15800	0.48200	0.39900	0.066667	0.02660	0.15233	0.964135
29.50	1.9667	0.00800	0.15000	0.08300	0.066667	0.00553	0.00787	0.983335
30.50	2.0333	0.00000	0.00800	0.00400	0.066667	0.00027	0.00000	1.000000
		1500.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	1100250.	0.	0.	0.	0.	0.	0.	0.	0
2010	162112.	0.	0.	0.	0.	0.	0.	0.	0
2009	229911.	0.	0.	0.	0.	0.	0.	0.	0
2008	77877.	0.	0.	0.	0.	0.	0.	0.	0
2007	120829.	0.	0.	0.	0.	0.	0.	0.	0
2006	102557.	0.	0.	0.	0.	0.	0.	0.	0
2005	102633.	0.	0.	0.	0.	0.	0.	0.	0
2004	79888.	0.	0.	0.	0.	0.	0.	0.	0
2003	89938.	0.	0.	0.	0.	0.	0.	0.	0
2002	132012.	0.	0.	0.	60924.	0.	0.	0.	0
2001	102351.	0.	0.	0.	0.	0.	0.	0.	0
2000	175796.	1648.	0.	0.	0.	0.	0.	0.	0
1999	82617.	0.	0.	1365.	0.	0.	0.	0.	2283
1998	112654.	0.	0.	0.	0.	1689.	0.	0.	3520
1997	111644.	0.	0.	5014.	67842.	4918.	0.	0.	3161
1996	218780.	0.	0.	3072.	0.	1631.	4320.	7609.	8490
1995	310959.	0.	43167.	0.	3562.	25248.	5660.	0.	10317
1994	293168.	0.	0.	0.	80854.	4718.	7948.	0.	14959
1993	229803.	0.	3205.	4416.	0.	0.	2666.	1058.	3373
1992	150076.	54996.	0.	4256.	0.	0.	0.	0.	61384
1991	155948.	0.	0.	1219.	0.	0.	3429.	0.	4499
1990	89306.	3296.	0.	3432.	0.	0.	0.	0.	9240
1989	54074.	1215.	0.	5686.	0.	533.	0.	2917.	14882
1988	191538.	11381.	0.	16877.	0.	0.	4889.	4676.	111014
1987	42295.	0.	0.	0.	0.	0.	2449.	0.	16490
1986	52255.	3296.	0.	0.	0.	0.	1105.	0.	14755
1985	35440.	0.	0.	399.	0.	0.	9137.	0.	7229
1984	45334.	0.	0.	884.	0.	0.	1477.	0.	0
1983	13157.	0.	0.	474.	0.	0.	0.	0.	3586
1982	29813.	0.	0.	0.	0.	0.	1088.	0.	10790
1981	26659.	0.	0.	0.	0.	0.	2670.	0.	2763
1980	8498.	0.	0.	0.	31830.	0.	928.	0.	0
1979	9115.	0.	0.	0.	0.	0.	1044.	0.	8772
1978	16028.	4841.	0.	0.	0.	0.	0.	0.	4729
1977	4322.	4377.	0.	5913.	0.	0.	0.	0.	9216
1976	2896.	3574.	0.	0.	0.	0.	0.	0.	5671
1975	2671.	5839.	0.	0.	0.	0.	0.	416.	0
1974	2482.	7841.	0.	988.	0.	0.	0.	0.	3016
1973	3696.	1686.	0.	0.	0.	0.	0.	0.	0
1972	139.	1471.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	0.	1672.	0.	0.	0.	0.	0.	0.	0
1970	2859.	0.	0.	0.	0.	0.	0.	0.	0
1969	11571.	3296.	0.	0.	0.	0.	0.	565.	3170
1968	4226.	0.	0.	0.	0.	0.	0.	0.	0
1967	952.	1957.	0.	0.	0.	0.	0.	0.	0
1966	0.	0.	0.	0.	0.	0.	0.	0.	0
1965	0.	0.	0.	0.	0.	0.	0.	0.	0
1964	290.	0.	0.	0.	0.	0.	0.	0.	0
1963	0.	0.	0.	0.	0.	0.	0.	1199.	0
1962	0.	0.	0.	0.	0.	0.	0.	0.	0
1961	0.	0.	0.	0.	0.	0.	0.	0.	0
1960	918.	7389.	0.	0.	0.	0.	0.	0.	0
1959	286.	1240.	0.	0.	0.	0.	0.	640.	642
1958	0.	0.	0.	0.	0.	0.	0.	0.	0
1957	0.	0.	0.	0.	0.	0.	0.	0.	3712
1956	0.	0.	0.	0.	0.	0.	0.	0.	0
1955	0.	0.	0.	0.	0.	0.	0.	0.	0
1954	0.	0.	0.	0.	0.	0.	0.	0.	0
1953	0.	0.	0.	0.	0.	0.	0.	0.	0
1952	0.	0.	0.	0.	0.	0.	0.	0.	0
1951	0.	0.	0.	0.	0.	0.	0.	0.	0
1950	0.	0.	0.	0.	0.	0.	0.	0.	0
1949	140.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	4792763.	121015.	46372.	53995.	245012.	38737.	48810.	19080.	341663

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	1100250.	0.	0.	0.	0.	0.	0.	0.	0
2010	162112.	0.	0.	0.	0.	0.	0.	0.	0
2009	229911.	0.	0.	0.	0.	0.	0.	0.	0
2008	77877.	0.	0.	0.	0.	0.	0.	0.	0
2007	120829.	0.	0.	0.	0.	0.	0.	0.	0
2006	102557.	0.	0.	0.	0.	0.	0.	0.	0
2005	102633.	0.	0.	0.	0.	0.	0.	0.	0
2004	79888.	0.	0.	0.	0.	0.	0.	0.	0
2003	89938.	0.	0.	0.	0.	0.	0.	0.	0
2002	132012.	0.	0.	0.	0.	0.	0.	0.	0
2001	102351.	0.	0.	0.	0.	0.	0.	0.	0
2000	175796.	613.	0.	0.	0.	0.	0.	0.	0
1999	82617.	0.	0.	0.	0.	0.	0.	0.	0
1998	112654.	0.	0.	0.	0.	0.	0.	0.	0
1997	111644.	19346.	0.	3382.	2740.	7095.	10081.	0.	0
1996	218780.	791.	1664.	0.	6077.	0.	24407.	0.	0
1995	310959.	0.	0.	0.	7752.	0.	28382.	0.	0
1994	293168.	3194.	0.	4813.	76294.	814.	17225.	7204.	0
1993	229803.	0.	2678.	4581.	91435.	5289.	2563.	2272.	608
1992	150076.	0.	0.	2149.	12381.	2367.	6672.	1376.	845
1991	155948.	15550.	871.	11887.	7127.	0.	4373.	1117.	0
1990	89306.	8220.	6150.	1025.	12404.	2224.	2603.	3886.	0
1989	54074.	0.	6139.	5999.	18432.	4896.	1358.	3913.	2076
1988	191538.	6619.	0.	6573.	50419.	15250.	0.	1415.	1780
1987	42295.	0.	730.	2899.	12414.	868.	3786.	0.	1383
1986	52255.	2241.	395.	7775.	6913.	0.	28871.	802.	0
1985	35440.	0.	0.	6984.	3713.	1641.	42303.	5992.	0
1984	45334.	0.	4823.	12044.	946.	0.	10199.	854.	0
1983	13157.	0.	0.	1702.	3912.	691.	2300.	932.	0
1982	29813.	482.	318.	10877.	733.	6083.	5597.	0.	0
1981	26659.	575.	0.	1888.	0.	2619.	4345.	0.	0
1980	8498.	0.	0.	1331.	1979.	0.	1327.	0.	0
1979	9115.	0.	0.	0.	1072.	1346.	3215.	3222.	2309
1978	16028.	0.	0.	2073.	6721.	0.	1861.	262.	890
1977	4322.	134.	0.	4715.	1518.	329.	4657.	0.	0
1976	2896.	3769.	0.	0.	0.	435.	1669.	0.	0
1975	2671.	468.	0.	4809.	1244.	0.	1648.	0.	0
1974	2482.	0.	0.	1338.	1968.	0.	3527.	813.	0
1973	3696.	0.	0.	731.	2160.	1494.	698.	1280.	0
1972	139.	0.	0.	2699.	4477.	0.	152.	776.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	0.	0.	0.	74.	871.	0.	0.	0.	0
1970	2859.	0.	0.	478.	0.	0.	493.	337.	0
1969	11571.	950.	0.	191.	0.	0.	100.	0.	0
1968	4226.	0.	785.	0.	441.	0.	0.	0.	0
1967	952.	0.	0.	392.	0.	0.	0.	0.	0
1966	0.	0.	0.	0.	0.	0.	0.	0.	0
1965	0.	0.	0.	720.	219.	0.	0.	0.	0
1964	290.	0.	0.	0.	0.	0.	0.	361.	0
1963	0.	0.	0.	0.	0.	0.	0.	0.	0
1962	0.	0.	0.	0.	0.	0.	0.	0.	0
1961	0.	0.	0.	0.	0.	0.	374.	0.	0
1960	918.	0.	0.	0.	575.	1151.	0.	0.	0
1959	286.	0.	0.	0.	1510.	0.	737.	0.	0
1958	0.	0.	0.	0.	0.	0.	0.	0.	0
1957	0.	0.	0.	0.	0.	0.	0.	0.	0
1956	0.	0.	0.	0.	1149.	0.	0.	0.	0
1955	0.	0.	0.	0.	0.	0.	0.	0.	0
1954	0.	0.	0.	0.	0.	323.	0.	0.	0
1953	0.	0.	0.	0.	0.	0.	0.	0.	0
1952	0.	0.	0.	0.	0.	0.	0.	0.	0
1951	0.	0.	0.	0.	0.	0.	0.	0.	0
1950	0.	0.	0.	0.	0.	0.	0.	0.	0
1949	140.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	4792763.	62952.	24553.	104129.	339596.	54915.	215523.	36814.	9891

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	1100250.	0.	0.	0.	0.	0.	0.	0.	0
2010	162112.	0.	0.	0.	0.	0.	0.	0.	0
2009	229911.	0.	0.	0.	0.	0.	0.	0.	0
2008	77877.	0.	0.	0.	0.	0.	0.	0.	0
2007	120829.	0.	0.	0.	0.	0.	0.	0.	0
2006	102557.	0.	0.	0.	0.	0.	0.	0.	0
2005	102633.	0.	0.	0.	0.	0.	0.	0.	0
2004	79888.	0.	0.	0.	0.	0.	0.	0.	0
2003	89938.	0.	0.	0.	0.	0.	0.	0.	0
2002	132012.	0.	0.	0.	0.	0.	0.	0.	0
2001	102351.	0.	0.	0.	0.	0.	0.	0.	0
2000	175796.	0.	0.	0.	0.	0.	0.	0.	0
1999	82617.	0.	0.	0.	0.	0.	0.	0.	0
1998	112654.	0.	0.	0.	0.	0.	0.	0.	0
1997	111644.	0.	0.	0.	0.	0.	0.	0.	0
1996	218780.	0.	0.	0.	0.	0.	0.	0.	0
1995	310959.	0.	0.	0.	0.	0.	0.	0.	0
1994	293168.	0.	0.	0.	0.	0.	0.	0.	0
1993	229803.	0.	0.	0.	0.	0.	0.	0.	0
1992	150076.	0.	909.	0.	0.	0.	0.	0.	0
1991	155948.	3626.	0.	0.	1259.	0.	0.	0.	0
1990	89306.	1197.	2342.	0.	0.	0.	0.	0.	0
1989	54074.	11142.	1994.	0.	1354.	0.	524.	0.	0
1988	191538.	8746.	8675.	8131.	0.	2480.	691.	0.	0
1987	42295.	2409.	2469.	0.	3743.	7216.	0.	0.	812
1986	52255.	48228.	7097.	37822.	1214.	3362.	1701.	0.	856
1985	35440.	3411.	1351.	0.	1971.	0.	2700.	0.	0
1984	45334.	5235.	8167.	3392.	13893.	6144.	3967.	0.	892
1983	13157.	6711.	4179.	1907.	2115.	4489.	0.	0.	0
1982	29813.	3855.	1364.	0.	871.	14903.	1791.	890.	232
1981	26659.	4595.	4945.	0.	9003.	16498.	3910.	0.	1744
1980	8498.	1487.	2541.	0.	1053.	5525.	0.	0.	171
1979	9115.	3878.	1456.	0.	675.	6536.	0.	733.	1052
1978	16028.	0.	3430.	0.	4157.	12303.	2607.	411.	299
1977	4322.	5447.	7169.	0.	2891.	5198.	702.	494.	1372
1976	2896.	1830.	1355.	0.	7484.	6799.	0.	0.	2858
1975	2671.	5529.	1991.	1753.	1358.	8100.	144.	5012.	0
1974	2482.	3961.	5700.	0.	1394.	6934.	143.	826.	5379
1973	3696.	156.	2657.	788.	3259.	7652.	16.	0.	2549
1972	139.	0.	357.	0.	3877.	2232.	542.	0.	3819

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	0.	419.	400.	729.	1179.	10406.	11582.	0.	0
1970	2859.	1792.	0.	0.	2083.	3025.	0.	99.	368
1969	11571.	250.	0.	530.	542.	13254.	711.	0.	490
1968	4226.	939.	0.	593.	0.	1105.	0.	0.	0
1967	952.	194.	0.	0.	2668.	2109.	0.	98.	0
1966	0.	558.	0.	0.	0.	1328.	0.	0.	438
1965	0.	6538.	0.	0.	194.	16946.	0.	917.	57
1964	290.	0.	0.	0.	1149.	859.	318.	639.	0
1963	0.	0.	362.	0.	0.	966.	595.	96.	0
1962	0.	0.	0.	0.	379.	0.	0.	0.	0
1961	0.	0.	0.	0.	629.	543.	0.	0.	0
1960	918.	627.	811.	0.	0.	4187.	452.	0.	0
1959	286.	173.	0.	0.	0.	4177.	2884.	0.	0
1958	0.	0.	0.	0.	904.	0.	0.	144.	275
1957	0.	0.	0.	0.	0.	2676.	0.	0.	0
1956	0.	0.	0.	0.	0.	1666.	0.	0.	0
1955	0.	0.	0.	0.	0.	843.	0.	0.	0
1954	0.	0.	0.	0.	0.	467.	0.	0.	0
1953	0.	0.	0.	0.	0.	0.	0.	0.	0
1952	0.	0.	0.	0.	0.	108.	0.	0.	0
1951	0.	0.	0.	0.	0.	0.	0.	0.	0
1950	0.	0.	0.	0.	0.	1753.	0.	0.	0
1949	140.	0.	0.	0.	0.	145.	0.	0.	600
TOTAL	4792763.	132933.	71721.	55645.	71298.	182934.	35980.	10359.	24263

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
2011	1100250.	0.	0.	0.	0.	0.
2010	162112.	0.	0.	0.	0.	0.
2009	229911.	0.	0.	0.	0.	0.
2008	77877.	0.	0.	0.	0.	0.
2007	120829.	0.	0.	0.	0.	0.
2006	102557.	0.	0.	0.	0.	0.
2005	102633.	0.	0.	0.	0.	0.
2004	79888.	0.	0.	0.	0.	0.
2003	89938.	0.	0.	0.	0.	0.
2002	132012.	0.	0.	0.	0.	0.
2001	102351.	0.	0.	0.	0.	0.
2000	175796.	0.	0.	0.	0.	0.
1999	82617.	0.	0.	0.	0.	0.
1998	112654.	0.	0.	0.	0.	0.
1997	111644.	0.	0.	0.	0.	0.
1996	218780.	0.	0.	0.	0.	0.
1995	310959.	0.	0.	0.	0.	0.
1994	293168.	0.	0.	0.	0.	0.
1993	229803.	0.	0.	0.	0.	0.
1992	150076.	0.	0.	0.	0.	0.
1991	155948.	0.	0.	0.	0.	0.
1990	89306.	0.	0.	0.	0.	0.
1989	54074.	0.	0.	0.	0.	0.
1988	191538.	0.	0.	0.	0.	0.
1987	42295.	0.	0.	0.	0.	0.
1986	52255.	0.	0.	0.	0.	0.
1985	35440.	0.	0.	0.	0.	0.
1984	45334.	598.	0.	0.	0.	0.
1983	13157.	0.	0.	0.	2923.	0.
1982	29813.	1451.	172.	0.	0.	130.
1981	26659.	3312.	0.	1595.	175.	0.
1980	8498.	707.	261.	0.	493.	0.
1979	9115.	4128.	3782.	507.	0.	833.
1978	16028.	3153.	2975.	792.	0.	1134.
1977	4322.	0.	285.	865.	0.	0.
1976	2896.	0.	0.	0.	0.	0.
1975	2671.	536.	527.	0.	81.	490.
1974	2482.	1268.	3282.	0.	485.	0.
1973	3696.	612.	953.	561.	182.	760.
1972	139.	0.	3840.	137.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1971	0.	0.	786.	0.	1360.	0.
1970	2859.	1046.	0.	0.	0.	432.
1969	11571.	629.	715.	855.	227.	0.
1968	4226.	0.	0.	0.	215.	0.
1967	952.	658.	262.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.
1965	0.	304.	0.	0.	0.	0.
1964	290.	0.	621.	0.	0.	0.
1963	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.
1961	0.	0.	0.	0.	0.	0.
1960	918.	0.	50.	0.	0.	0.
1959	286.	0.	6335.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.
1950	0.	0.	0.	0.	0.	0.
1949	140.	0.	0.	0.	0.	0.
TOTAL	4792763.	18402.	24846.	5312.	6141.	3779.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	6406494.	0.	0.00000000	1.00000000	1.00000000
0.5	5397684.	15729.	0.00291403	0.99708597	1.00000000
1.5	5307139.	33958.	0.00639855	0.99360145	0.99708597
2.5	5101401.	44154.	0.00865527	0.99134473	0.99070607
3.5	5033045.	48671.	0.00967029	0.99032971	0.98213124
4.5	4932211.	38500.	0.00780583	0.99219417	0.97263375
5.5	4850758.	204136.	0.04208332	0.95791668	0.96504153
6.5	4582329.	177969.	0.03883811	0.96116189	0.92442938
7.5	4367088.	72056.	0.01649978	0.98350022	0.88852629
8.5	4256439.	119613.	0.02810166	0.97189834	0.87386580
9.5	4036704.	87880.	0.02177024	0.97822976	0.84930872
10.5	3870991.	146754.	0.03791122	0.96208878	0.83081907
11.5	3577919.	240503.	0.06721868	0.93278132	0.79932170
12.5	3267811.	121650.	0.03722676	0.96277324	0.74559235
13.5	3071553.	144012.	0.04688573	0.95311427	0.71783637
14.5	2824201.	99780.	0.03533035	0.96466965	0.68418009
15.5	2514931.	160884.	0.06397154	0.93602846	0.66000777
16.5	2045412.	76799.	0.03754696	0.96245304	0.61778606
17.5	1701340.	55852.	0.03282824	0.96717176	0.59459007
18.5	1419922.	104205.	0.07338783	0.92661217	0.57507072
19.5	1168859.	41141.	0.03519757	0.96480243	0.53286753
20.5	972149.	51971.	0.05345991	0.94654009	0.51411188
21.5	832418.	40816.	0.04903306	0.95096694	0.48662751
22.5	753688.	22735.	0.03016500	0.96983500	0.46276667
23.5	558039.	14984.	0.02685117	0.97314883	0.44880732
24.5	502083.	25360.	0.05050958	0.94949042	0.43675631
25.5	430856.	32348.	0.07507845	0.92492155	0.41469594
26.5	365883.	26786.	0.07320920	0.92679080	0.38356121
27.5	294606.	45979.	0.15606946	0.84393054	0.35548100
28.5	236260.	4228.	0.01789554	0.98210446	0.30000127
29.5	202219.	11693.	0.05782345	0.94217655	0.29463259
30.5	163975.	8684.	0.05295929	0.94704071	0.27759592
31.5	146793.	10722.	0.07304163	0.92695837	0.26289463
32.5	128709.	5202.	0.04041675	0.95958325	0.24369238
33.5	108364.	10895.	0.10054077	0.89945923	0.23384313
34.5	93147.	10244.	0.10997670	0.89002330	0.21033236
35.5	80007.	8140.	0.10174110	0.89825890	0.18720070
36.5	69196.	8682.	0.12546968	0.87453032	0.16815469
37.5	58032.	1686.	0.02905294	0.97094706	0.14705638
38.5	52650.	4067.	0.07724596	0.92275404	0.14278396

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	48444.	2247.	0.04638345	0.95361655	0.13175447
40.5	46197.	3263.	0.07063229	0.92936771	0.12564325
41.5	40075.	4640.	0.11578291	0.88421709	0.11676878
42.5	23864.	0.	0.00000000	1.00000000	0.10324895
43.5	19638.	3106.	0.15816275	0.84183725	0.10324895
44.5	15581.	965.	0.06193441	0.93806559	0.08691881
45.5	14616.	640.	0.04378763	0.95621237	0.08153555
46.5	13975.	3712.	0.26561717	0.73438283	0.07796530
47.5	9974.	0.	0.00000000	1.00000000	0.05725638
48.5	9974.	0.	0.00000000	1.00000000	0.05725638
49.5	9974.	0.	0.00000000	1.00000000	0.05725638
50.5	9973.	7389.	0.74090043	0.25909957	0.05725638
51.5	1666.	1240.	0.74429772	0.25570228	0.01483510
52.5	141.	0.	0.00000000	1.00000000	0.00379337
53.5	141.	0.	0.00000000	1.00000000	0.00379337
54.5	141.	0.	0.00000000	1.00000000	0.00379337
55.5	141.	0.	0.00000000	1.00000000	0.00379337
56.5	141.	0.	0.00000000	1.00000000	0.00379337
57.5	141.	0.	0.00000000	1.00000000	0.00379337
58.5	141.	0.	0.00000000	1.00000000	0.00379337
59.5	141.	0.	0.00000000	1.00000000	0.00379337
60.5	141.	0.	0.00000000	1.00000000	0.00379337
61.5	140.	0.	0.00000000	1.00000000	0.00379337
TOTAL		2406670.			23.28167467

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 22.782010 FIT INDEX 0.002202 VARIANCE 0.327977

FITTED RANGE AGE 0.5 TO 61.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	6406494.	0.	26293.	0.00000000	0.00410415	1.00000000	1.00000000	0.00	0.00000000
0.5	5397684.	15729.	50640.	0.00291403	0.00938171	1.00000000	0.99589585	2.19	0.01787139
1.5	5307139.	33958.	62245.	0.00639855	0.01172855	0.99708597	0.98655264	6.58	0.05267220
2.5	5101401.	44154.	71804.	0.00865527	0.01407538	0.99070607	0.97498181	10.97	0.08558433
3.5	5033045.	48671.	82654.	0.00967029	0.01642222	0.98213124	0.96125857	15.36	0.11673742
4.5	4932211.	38500.	92573.	0.00780583	0.01876905	0.97263375	0.94547257	19.75	0.14625080
5.5	4850758.	204136.	102428.	0.04208332	0.02111588	0.96504153	0.92772695	24.14	0.17423433
6.5	4582329.	177969.	107514.	0.03883811	0.02346272	0.92442938	0.90813718	28.53	0.20078913
7.5	4367088.	72056.	112713.	0.01649978	0.02580955	0.88852629	0.88682981	32.92	0.22600849
8.5	4256439.	119613.	119846.	0.02810166	0.02815639	0.87386580	0.86394113	37.31	0.24997859
9.5	4036704.	87880.	123132.	0.02177024	0.03050322	0.84930872	0.83961567	41.70	0.27277901
10.5	3870991.	146754.	127162.	0.03791122	0.03285005	0.83081907	0.81400469	46.09	0.29448331
11.5	3577919.	240503.	125932.	0.06721868	0.03519689	0.79932170	0.78726459	50.48	0.31515960
12.5	3267811.	121650.	122686.	0.03722676	0.03754372	0.74559235	0.75955533	54.87	0.33487096
13.5	3071553.	144012.	122526.	0.04688573	0.03989056	0.71783637	0.73103880	59.26	0.35367582
14.5	2824201.	99780.	119287.	0.03533035	0.04223739	0.68418009	0.70187725	63.65	0.37162855
15.5	2514931.	160884.	112126.	0.06397154	0.04458422	0.66000777	0.67223179	68.04	0.38877951
16.5	2045412.	76799.	95993.	0.03754696	0.04693106	0.61778606	0.64226086	72.43	0.40517550
17.5	1701340.	55852.	83838.	0.03282824	0.04927789	0.59459007	0.61211888	76.81	0.42086012
18.5	1419922.	104205.	73303.	0.07338783	0.05162473	0.57507072	0.58195495	81.20	0.43587394
19.5	1168859.	41141.	63085.	0.03519757	0.05397156	0.53286753	0.55191168	85.59	0.45025476
20.5	972149.	51971.	54750.	0.05345991	0.05631839	0.51411188	0.52212415	89.98	0.46403782
21.5	832418.	40816.	48834.	0.04903306	0.05866523	0.48662751	0.49271896	94.37	0.47725599
22.5	753688.	22735.	45984.	0.03016500	0.06101206	0.46276667	0.46381349	98.76	0.48993997
23.5	558039.	14984.	35357.	0.02685117	0.06335890	0.44880732	0.43551527	103.15	0.50211842
24.5	502083.	25360.	32990.	0.05050958	0.06570573	0.43675631	0.40792150	107.54	0.51381823
25.5	430856.	32348.	29321.	0.07507845	0.06805256	0.41469594	0.38111872	111.93	0.52506446
26.5	365883.	26786.	25758.	0.07320920	0.07039940	0.38356121	0.35518262	116.32	0.53588065
27.5	294606.	45979.	21431.	0.15606946	0.07274623	0.35548100	0.33017798	120.71	0.54628888
28.5	236260.	4228.	17741.	0.01789554	0.07509306	0.30000127	0.30615877	125.10	0.55630981
29.5	202219.	11693.	15660.	0.05782345	0.07743990	0.29463259	0.28316837	129.49	0.56596284
30.5	163975.	8684.	13083.	0.05295929	0.07978673	0.27759592	0.26123984	133.88	0.57526619
31.5	146793.	10722.	12057.	0.07304163	0.08213357	0.26289463	0.24039637	138.27	0.58423700

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 22.782010 FIT INDEX 0.002202 VARIANCE 0.327977

FITTED RANGE AGE 0.5 TO 61.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	128709.	5202.	10873.	0.04041675	0.08448040	0.24369238	0.22065176	142.66	0.59289139
33.5	108364.	10895.	9409.	0.10054077	0.08682723	0.23384313	0.20201101	147.05	0.60124454
34.5	93147.	10244.	8306.	0.10997670	0.08917407	0.21033236	0.18447095	151.44	0.60931075
35.5	80007.	8140.	7322.	0.10174110	0.09152090	0.18720070	0.16802093	155.82	0.61710346
36.5	69196.	8682.	6495.	0.12546968	0.09386774	0.16815469	0.15264350	160.21	0.62463543
37.5	58032.	1686.	5584.	0.02905294	0.09621457	0.14705638	0.13831520	164.60	0.63191860
38.5	52650.	4067.	5189.	0.07724596	0.09856140	0.14278396	0.12500726	168.99	0.63896436
39.5	48444.	2247.	4888.	0.04638345	0.10090824	0.13175447	0.11268637	173.38	0.64578340
40.5	46197.	3263.	4770.	0.07063229	0.10325507	0.12564325	0.10131539	177.77	0.65238593
41.5	40075.	4640.	4232.	0.11578291	0.10560191	0.11676878	0.09085406	182.16	0.65878151
42.5	23864.	0.	2576.	0.00000000	0.10794874	0.10324895	0.08125970	186.55	0.66497931
43.5	19638.	3106.	2166.	0.15816275	0.11029557	0.10324895	0.07248782	190.94	0.67098802
44.5	15581.	965.	1755.	0.06193441	0.11264241	0.08691881	0.06449273	195.33	0.67681586
45.5	14616.	640.	1681.	0.04378763	0.11498924	0.08153555	0.05722811	199.72	0.68247070
46.5	13975.	3712.	1640.	0.26561717	0.11733608	0.07796530	0.05064750	204.11	0.68796007
47.5	9974.	0.	1194.	0.00000000	0.11968291	0.05725638	0.04470472	208.50	0.69329115
48.5	9974.	0.	1217.	0.00000000	0.12202974	0.05725638	0.03935433	212.89	0.69847083
49.5	9974.	0.	1241.	0.00000000	0.12437658	0.05725638	0.03455193	217.28	0.70350580
50.5	9973.	7389.	1264.	0.74090043	0.12672341	0.05725638	0.03025448	221.67	0.70840248
51.5	1666.	1240.	215.	0.74429772	0.12907025	0.01483510	0.02642053	226.06	0.71316711
52.5	141.	0.	19.	0.00000000	0.13141708	0.00379337	0.02301042	230.44	0.71780581
53.5	141.	0.	19.	0.00000000	0.13376391	0.00379337	0.01998646	234.83	0.72232456
54.5	141.	0.	19.	0.00000000	0.13611075	0.00379337	0.01731299	239.22	0.72672935
55.5	141.	0.	20.	0.00000000	0.13845758	0.00379337	0.01495651	243.61	0.73102617
56.5	141.	0.	20.	0.00000000	0.14080442	0.00379337	0.01288567	248.00	0.73522106
57.5	141.	0.	20.	0.00000000	0.14315125	0.00379337	0.01107131	252.39	0.73932023
58.5	141.	0.	21.	0.00000000	0.14549808	0.00379337	0.00948644	256.78	0.74333015
59.5	141.	0.	21.	0.00000000	0.14784492	0.00379337	0.00810618	261.17	0.74725764
60.5	141.	0.	21.	0.00000000	0.15019175	0.00379337	0.00690772	265.56	0.75111004
61.5	140.	0.	21.	0.00000000	0.15253859	0.00379337	0.00587024	269.95	0.75489535
TOTAL (EXCEPT AGE 0)	2406670.	2406670.							

PGS - 2011 CASE

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MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39400 Tools, Shop & Garage Equip

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 22.782010 FIT INDEX 0.002202 VARIANCE 0.327977

FITTED RANGE AGE 0.5 TO 61.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
62.5					0.15488542		0.00497480	274.34	0.75862247
63.5					0.15723225		0.00420428	278.73	0.76230142
64.5					0.15957909		0.00354323	283.12	0.76594372
65.5					0.16192592		0.00297780	287.51	0.76956272
66.5					0.16427276		0.00249562	291.90	0.77317422
67.5					0.16661959		0.00208566	296.29	0.77679701
68.5					0.16896642		0.00173815	300.68	0.78045378
69.5					0.17131326		0.00144446	305.07	0.78417205
70.5					0.17366009		0.00119700	309.45	0.78798564
71.5					0.17600693		0.00098913	313.84	0.79193620
72.5					0.17835376		0.00081504	318.23	0.79607550
73.5					0.18070059		0.00066967	322.62	0.80046818
74.5					0.18304743		0.00054866	327.01	0.80519528
75.5					0.18539426		0.00044823	331.40	0.81035887
76.5					0.18774109		0.00036513	335.79	0.81608807
77.5					0.19008793		0.00029658	340.18	0.82254669
78.5					0.19243476		0.00024020	344.57	0.82994337
79.5					0.19478160		0.00019398	348.96	0.83854465
80.5					0.19712843		0.00015620	353.35	0.84869202
81.5					0.19947526		0.00012541	357.74	0.86082445
82.5					0.20182210		0.00010039	362.13	0.87550769
83.5					0.20416893		0.00008013	366.52	0.89347307
84.5					0.20651577		0.00006377	370.91	0.91566857
85.5					0.20886260		0.00005060	375.30	0.94332644
86.5							0.00004003	379.69	0.97805286

EQUIVALENT H CURVE IS 1.27

EQUIVALENT L CURVE IS 0.50

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS

Peoples Gas System
Net Salvage Analysis
Account - 394.00 - Tools, Shop, & Garage Equip
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	46,371	0	0	0	0	0	0
2009	53,995	(10)	(0)	51	0	41	0
2008	96,316	0	0	7,642	8	7,642	8
2007	34,017	0	0	0	0	0	0
2006	48,810	(121)	(0)	500	1	379	1
2005	19,082	(543)	(3)	1,000	5	457	2
2004	241,662	0	0	0	0	0	0
2003	59,557	0	0	7	0	7	0
2002	24,553	(612)	(2)	5,250	21	4,638	19
2001	104,131	0	0	900	1	900	1
2000	341,351	0	0	250	0	250	0
1999	54,914	0	0	904	2	904	2
1998	215,521	0	0	2,505	1	2,505	1
1997	36,813	0	0	0	0	0	0
1996	9,891	0	0	0	0	0	0
1995	132,934	0	0	2,230	2	2,230	2
1994	72,183	(44)	(0)	1,500	2	1,456	2
1993	55,646	0	0	0	0	0	0
1992	71,298	0	0	0	0	0	0
1991	183,016	0	0	0	0	0	0
1990	35,980	0	0	2,318	6	2,318	6
1989	10,360	0	0	0	0	0	0
1988	24,611	0	0	242	1	242	1
1987	18,401	(13)	(0)	138	1	125	1
1986	24,845	(26)	(0)	0	0	(26)	(0)
1985	5,312	(16)	(0)	0	0	(16)	(0)
1984	6,141	0	0	2,784	45	2,784	45
1983	3,779	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	2,031,491	**(1,385)**	**(0)**	**28,221**	**1**	**26,836**	**1**

Peoples Gas System
Net Salvage Analysis
Account - 394.00 - Tools, Shop, & Garage Equip
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	279,510	(131)	(0)	8,193	3	8,062	3
2009	252,221	(674)	(0)	9,193	4	8,519	3
2008	439,888	(664)	(0)	9,142	2	8,478	2
2007	403,129	(664)	(0)	1,507	0	843	0
2006	393,664	(1,276)	(0)	6,757	2	5,480	1
2005	448,984	(1,155)	(0)	7,157	2	6,001	1
2004	771,254	(612)	(0)	6,407	1	5,794	1
2003	584,505	(612)	(0)	7,311	1	6,698	1
2002	740,469	(612)	(0)	9,809	1	9,197	1
2001	752,730	0	0	4,559	1	4,559	1
2000	658,490	0	0	3,659	1	3,659	1
1999	450,073	0	0	5,639	1	5,639	1
1998	467,343	(44)	(0)	6,235	1	6,191	1
1997	307,467	(44)	(0)	3,730	1	3,686	1
1996	341,952	(44)	(0)	3,730	1	3,686	1
1995	515,077	(44)	(0)	3,730	1	3,686	1
1994	418,122	(44)	(0)	3,818	1	3,774	1
1993	356,299	0	0	2,318	1	2,318	1
1992	325,265	0	0	2,560	1	2,560	1
1991	272,367	(13)	(0)	2,698	1	2,686	1
1990	114,197	(38)	(0)	2,698	2	2,660	2
1989	83,530	(54)	(0)	380	0	326	0
1988	79,311	(54)	(0)	3,163	4	3,109	4
1987	58,478	(54)	(0)	2,921	5	2,867	5
1986	40,078	(41)	(0)	2,784	7	2,742	7

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39500. Laboratory Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 20.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.024960	0.	0.
2010	1.50	0.	0.074314	0.	0.
2009	2.50	0.	0.122318	0.	0.
2008	3.50	0.	0.168560	0.	0.
2007	4.50	0.	0.212808	0.	0.
2006	5.50	0.	0.254976	0.	0.
2005	6.50	0.	0.295052	0.	0.
2004	7.50	0.	0.333088	0.	0.
2003	8.50	0.	0.369167	0.	0.
2002	9.50	0.	0.403393	0.	0.
2001	10.50	0.	0.435876	0.	0.
2000	11.50	0.	0.466736	0.	0.
1999	12.50	0.	0.496092	0.	0.
1998	13.50	16833.	0.524052	8821.	8012.
1997	14.50	1493.	0.550726	822.	671.
1996	15.50	0.	0.576212	0.	0.
1995	16.50	0.	0.600608	0.	0.
1994	17.50	28118.	0.623993	17545.	10573.
SUBTOTAL :			0.585416	27189.	19255.
NET SALVAGE: 0.0%				0.	0.
TOTAL :		46444.	0.585416	27189.	19255.

WEIGHTED AGE: 16.0 YEARS
REMAINING LIFE: 8.3 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39500. Laboratory Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 20.0 YRS CURVE: IOWA S1 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.050000	0.
2010	1.50 - 2.50	0.	0.050000	0.
2009	2.50 - 3.50	0.	0.050000	0.
2008	3.50 - 4.50	0.	0.050000	0.
2007	4.50 - 5.50	0.	0.050000	0.
2006	5.50 - 6.50	0.	0.050000	0.
2005	6.50 - 7.50	0.	0.050000	0.
2004	7.50 - 8.50	0.	0.050000	0.
2003	8.50 - 9.50	0.	0.050000	0.
2002	9.50 - 10.50	0.	0.050000	0.
2001	10.50 - 11.50	0.	0.050000	0.
2000	11.50 - 12.50	0.	0.050000	0.
1999	12.50 - 13.50	0.	0.050000	0.
1998	13.50 - 14.50	16833.	0.050000	842.
1997	14.50 - 15.50	1493.	0.050000	75.
1996	15.50 - 16.50	0.	0.050000	0.
1995	16.50 - 17.50	0.	0.050000	0.
1994	17.50 - 18.50	28118.	0.050000	1406.
SUBTOTAL :		46444.	0.050000	2322.
NET SALVAGE: 0.0 %				0.
TOTAL :		46444.	0.050000	2322.

MONTHLY RATE: 0.004167

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39500. Laboratory Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 20.0 YRS CURVE: IOWA S1

I YEAR INSTALLED	II AGE AT 12/31/11	III ORIGINAL COST	IV AVERAGE REMAINING LIFE	V WEIGHTED DOLLAR YEARS
2011	0.50	0.	19.5	0.
2010	1.50	0.	18.5	0.
2009	2.50	0.	17.6	0.
2008	3.50	0.	16.6	0.
2007	4.50	0.	15.7	0.
2006	5.50	0.	14.9	0.
2005	6.50	0.	14.1	0.
2004	7.50	0.	13.3	0.
2003	8.50	0.	12.6	0.
2002	9.50	0.	11.9	0.
2001	10.50	0.	11.3	0.
2000	11.50	0.	10.7	0.
1999	12.50	0.	10.1	0.
1998	13.50	16833.	9.5	160233.
1997	14.50	1493.	9.0	13415.
1996	15.50	0.	8.5	0.
1995	16.50	0.	8.0	0.
1994	17.50	28118.	7.5	211451.
TOTAL:		46444.	8.3	385099.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39500. Laboratory Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 20.0 YEARS CURVE: IOWA S1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0250	99.99600	0.00400	49.99900	0.050000	2.49995	2.49595	0.024960
1.50	0.0750	99.92800	0.06800	99.96200	0.050000	4.99810	7.42605	0.074314
2.50	0.1250	99.70700	0.22100	99.81750	0.050000	4.99087	12.19592	0.122318
3.50	0.1750	99.26950	0.43750	99.48825	0.050000	4.97441	16.73284	0.168560
4.50	0.2250	98.56650	0.70300	98.91800	0.050000	4.94590	20.97574	0.212808
5.50	0.2750	97.56400	1.00250	98.06525	0.050000	4.90326	24.87650	0.254976
6.50	0.3250	96.23750	1.32650	96.90075	0.050000	4.84504	28.39504	0.295052
7.50	0.3750	94.57350	1.66400	95.40550	0.050000	4.77027	31.50131	0.333088
8.50	0.4250	92.56600	2.00750	93.56975	0.050000	4.67849	34.17230	0.369167
9.50	0.4750	90.21700	2.34900	91.39150	0.050000	4.56957	36.39288	0.403393
10.50	0.5250	87.53450	2.68250	88.87575	0.050000	4.44379	38.15416	0.435876
11.50	0.5750	84.53350	3.00100	86.03400	0.050000	4.30170	39.45486	0.466736
12.50	0.6250	81.23400	3.29950	82.88375	0.050000	4.14419	40.29955	0.496092
13.50	0.6750	77.66000	3.57400	79.44700	0.050000	3.97235	40.69790	0.524052
14.50	0.7250	73.84050	3.81950	75.75025	0.050000	3.78751	40.66591	0.550726
15.50	0.7750	69.80700	4.03350	71.82375	0.050000	3.59119	40.22360	0.576212
16.50	0.8250	65.59550	4.21150	67.70125	0.050000	3.38506	39.39716	0.600608
17.50	0.8750	61.24200	4.35350	63.41875	0.050000	3.17094	38.21460	0.623993
18.50	0.9250	56.78650	4.45550	59.01425	0.050000	2.95071	36.70981	0.646453
19.50	0.9750	52.26950	4.51700	54.52800	0.050000	2.72640	34.91921	0.668061
20.50	1.0250	47.73050	4.53900	50.00000	0.050000	2.50000	32.88021	0.688872
21.50	1.0750	43.21350	4.51700	45.47200	0.050000	2.27360	30.63681	0.708964
22.50	1.1250	38.75800	4.45550	40.98575	0.050000	2.04929	28.23060	0.728381
23.50	1.1750	34.40450	4.35350	36.58125	0.050000	1.82906	25.70616	0.747174
24.50	1.2250	30.19300	4.21150	32.29875	0.050000	1.61494	23.10960	0.765396
25.50	1.2750	26.15950	4.03350	28.17625	0.050000	1.40881	20.48491	0.783077
26.50	1.3250	22.34000	3.81950	24.24975	0.050000	1.21249	17.87790	0.800264
27.50	1.3750	18.76600	3.57400	20.55300	0.050000	1.02765	15.33155	0.816986
28.50	1.4250	15.46650	3.29950	17.11625	0.050000	0.85581	12.88786	0.833276
29.50	1.4750	12.46550	3.00100	13.96600	0.050000	0.69830	10.58516	0.849157
30.50	1.5250	9.78300	2.68250	11.12425	0.050000	0.55621	8.45887	0.864650
31.50	1.5750	7.43400	2.34900	8.60850	0.050000	0.43043	6.54030	0.879782
32.50	1.6250	5.42650	2.00750	6.43025	0.050000	0.32151	4.85431	0.894557
33.50	1.6750	3.76250	1.66400	4.59450	0.050000	0.22973	3.42004	0.908980
34.50	1.7250	2.43600	1.32650	3.09925	0.050000	0.15496	2.24850	0.923030
35.50	1.7750	1.43350	1.00250	1.93475	0.050000	0.09674	1.34274	0.936685
36.50	1.8250	0.73050	0.70300	1.08200	0.050000	0.05410	0.69384	0.949812
37.50	1.8750	0.29300	0.43750	0.51175	0.050000	0.02559	0.28193	0.962201
38.50	1.9250	0.07200	0.22100	0.18250	0.050000	0.00913	0.07005	0.972917

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39500. Laboratory Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 20.0 YEARS CURVE: IOWA S1

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
39.50	1.9750	0.00400	0.06800	0.03800	0.050000	0.00190	0.00395	0.987508
40.50	2.0250	0.00000	0.00400	0.00200	0.050000	0.00010	0.00000	1.000000
		1999.99999	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39500 Laboratory Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	0.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	0.	0.	0.	0.	0.	0.	0.	0.	0
2007	0.	0.	0.	0.	0.	0.	0.	0.	0
2006	0.	0.	0.	0.	0.	0.	0.	0.	0
2005	0.	0.	0.	0.	0.	0.	0.	0.	0
2004	0.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	0.	0.	0.	0.	0.	0.	0.	0.	0
2001	0.	0.	0.	0.	0.	0.	0.	0.	0
2000	0.	0.	0.	0.	0.	0.	0.	0.	0
1999	0.	0.	0.	0.	0.	0.	0.	0.	0
1998	16833.	0.	0.	0.	0.	0.	0.	0.	0
1997	1493.	0.	0.	0.	0.	0.	0.	0.	0
1996	0.	0.	0.	0.	0.	0.	0.	0.	0
1995	0.	0.	0.	0.	0.	0.	0.	0.	0
1994	28118.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	46444.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39500 Laboratory Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	0.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	0.	0.	0.	0.	0.	0.	0.	0.	0
2007	0.	0.	0.	0.	0.	0.	0.	0.	0
2006	0.	0.	0.	0.	0.	0.	0.	0.	0
2005	0.	0.	0.	0.	0.	0.	0.	0.	0
2004	0.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	0.	0.	0.	0.	0.	0.	0.	0.	0
2001	0.	0.	0.	0.	0.	0.	0.	0.	0
2000	0.	0.	0.	0.	0.	0.	0.	0.	0
1999	0.	0.	0.	0.	0.	0.	0.	0.	0
1998	16833.	0.	0.	0.	0.	0.	0.	0.	0
1997	1493.	0.	0.	0.	0.	0.	0.	0.	0
1996	0.	0.	0.	0.	0.	0.	0.	0.	0
1995	0.	0.	0.	0.	0.	0.	0.	0.	0
1994	28118.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	46444.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39500 Laboratory Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994
2011	0.	0.	0.
2010	0.	0.	0.
2009	0.	0.	0.
2008	0.	0.	0.
2007	0.	0.	0.
2006	0.	0.	0.
2005	0.	0.	0.
2004	0.	0.	0.
2003	0.	0.	0.
2002	0.	0.	0.
2001	0.	0.	0.
2000	0.	0.	0.
1999	0.	0.	0.
1998	16833.	0.	0.
1997	1493.	0.	0.
1996	0.	0.	0.
1995	0.	0.	0.
1994	28118.	0.	0.
TOTAL	46444.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39500 Laboratory Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1994 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	46445.	0.	0.00000000	1.00000000	1.00000000
0.5	46445.	0.	0.00000000	1.00000000	1.00000000
1.5	46445.	0.	0.00000000	1.00000000	1.00000000
2.5	46445.	0.	0.00000000	1.00000000	1.00000000
3.5	46445.	0.	0.00000000	1.00000000	1.00000000
4.5	46445.	0.	0.00000000	1.00000000	1.00000000
5.5	46445.	0.	0.00000000	1.00000000	1.00000000
6.5	46445.	0.	0.00000000	1.00000000	1.00000000
7.5	46445.	0.	0.00000000	1.00000000	1.00000000
8.5	46445.	0.	0.00000000	1.00000000	1.00000000
9.5	46445.	0.	0.00000000	1.00000000	1.00000000
10.5	46445.	0.	0.00000000	1.00000000	1.00000000
11.5	46445.	0.	0.00000000	1.00000000	1.00000000
12.5	46444.	0.	0.00000000	1.00000000	1.00000000
13.5	29611.	0.	0.00000000	1.00000000	1.00000000
14.5	28119.	0.	0.00000000	1.00000000	1.00000000
15.5	28119.	0.	0.00000000	1.00000000	1.00000000
16.5	28118.	0.	0.00000000	1.00000000	1.00000000
TOTAL		0.			17.00000000

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39500 Laboratory Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1994	1998	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1995	1999	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1996	2000	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1997	2001	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1998	2002	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1999	2003	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2000	2004	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2001	2005	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2002	2006	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2003	2007	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2004	2008	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2005	2009	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39500 Laboratory Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2005	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2004	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2003	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2002	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2001	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2000	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1999	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1998	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1997	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1996	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1995	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1994	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39500 Laboratory Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1994	1998	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1995	1999	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1996	2000	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1997	2001	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1998	2002	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1999	2003	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2000	2004	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2001	2005	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2002	2006	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2003	2007	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2004	2008	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2005	2009	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39500 Laboratory Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2005	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2004	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2003	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2002	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2001	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2000	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1999	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1998	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1997	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1996	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1995	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1994	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39500 Laboratory Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1994	1998	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1995	1999	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1996	2000	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1997	2001	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1998	2002	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1999	2003	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2000	2004	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2001	2005	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2002	2006	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2003	2007	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2004	2008	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2005	2009	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2010	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39500 Laboratory Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2005	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2004	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2003	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2002	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2001	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2000	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1999	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1998	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1997	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1996	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1995	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
1994	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

Peoples Gas System
Net Salvage Analysis
Account - 395.00 - Laboratory Equipment
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0
2007	3,844	0	0	0	0	0	0
2006	79,289	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0
2001	0	0	0	13,000	0	13,000	0
2000	92,639	0	0	0	0	0	0
1999	24,918	0	0	0	0	0	0
1998	107,074	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	15,558	0	0	0	0	0	0
1994	25,920	0	0	100	0	100	0
1993	2,706	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1991	952	0	0	0	0	0	0
1990	1,094	0	0	240	22	240	22
1989	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0
1987	206	0	0	0	0	0	0
1986	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	354,201	**0**	**0**	**13,340**	**4**	**13,340**	**4**

Peoples Gas System
Net Salvage Analysis
Account - 395.00 - Laboratory Equipment
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	83,133	0	0	0	0	0	0
2009	83,133	0	0	0	0	0	0
2008	83,133	0	0	0	0	0	0
2007	83,133	0	0	0	0	0	0
2006	79,289	0	0	0	0	0	0
2005	0	0	0	13,000	0	13,000	0
2004	92,639	0	0	13,000	14	13,000	14
2003	117,557	0	0	13,000	11	13,000	11
2002	224,631	0	0	13,000	6	13,000	6
2001	224,631	0	0	13,000	6	13,000	6
2000	224,631	0	0	0	0	0	0
1999	147,551	0	0	0	0	0	0
1998	148,552	0	0	100	0	100	0
1997	44,184	0	0	100	0	100	0
1996	44,184	0	0	100	0	100	0
1995	45,136	0	0	100	0	100	0
1994	30,672	0	0	340	1	340	1
1993	4,753	0	0	240	5	240	5
1992	2,046	0	0	240	12	240	12
1991	2,252	0	0	240	11	240	11
1990	1,300	0	0	240	18	240	18
1989	206	0	0	0	0	0	0
1988	206	0	0	0	0	0	0
1987	206	0	0	0	0	0	0
1986	0	0	0	0	0	0	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600. Power Operated Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 5.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	182700.	0.033333	6090.	176610.
2010	1.50	200554.	0.100000	20055.	180499.
2009	2.50	85247.	0.166667	14208.	71039.
2008	3.50	74752.	0.233333	17442.	57310.
2007	4.50	38673.	0.300000	11602.	27071.
2006	5.50	65034.	0.366656	23845.	41189.
2005	6.50	5104.	0.433230	2211.	2893.
2004	7.50	49851.	0.499400	24896.	24955.
2003	8.50	0.	0.564311	0.	0.
2002	9.50	112690.	0.626438	70593.	42097.
2001	10.50	97297.	0.683894	66541.	30756.
2000	11.50	62104.	0.734953	45644.	16460.
1999	12.50	12270.	0.778802	9556.	2714.
1998	13.50	285578.	0.815469	232880.	52698.
1997	14.50	82055.	0.845582	69384.	12671.
1996	15.50	123107.	0.870176	107125.	15982.
1995	16.50	71089.	0.890223	63285.	7804.
1994	17.50	128610.	0.906709	116612.	11998.
1993	18.50	3932.	0.920324	3619.	313.
1992	19.50	42734.	0.931535	39808.	2926.
1991	20.50	3798.	0.941048	3574.	224.
1990	21.50	47544.	0.948944	45117.	2427.
1989	22.50	37018.	0.955354	35365.	1653.
1988	23.50	0.	0.960131	0.	0.
1987	24.50	32464.	0.966667	31382.	1082.
1986	25.50	64025.	1.000000	64025.	0.
1985	26.50	51215.	1.000000	51215.	0.
1984	27.50	46153.	1.000000	46153.	0.
1983	28.50	0.	1.000000	0.	0.
1982	29.50	1041.	1.000000	1041.	0.
1981	30.50	1892.	1.000000	1892.	0.
1980	31.50	0.	1.000000	0.	0.
1979	32.50	0.	1.000000	0.	0.
1978	33.50	0.	1.000000	0.	0.
1977	34.50	0.	1.000000	0.	0.
1976	35.50	706.	1.000000	706.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600. Power Operated Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 5.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
SUBTOTAL :				0.610115	1225865.	783372.
NET SALVAGE: 5.0%					-61293.	61293.
TOTAL :			2009237.	0.579609	1164572.	844665.

WEIGHTED AGE: 11.5 YEARS
REMAINING LIFE: 5.8 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600. Power Operated Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 5.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	182700.	0.066667	12180.
2010	1.50 - 2.50	200554.	0.066667	13370.
2009	2.50 - 3.50	85247.	0.066667	5683.
2008	3.50 - 4.50	74752.	0.066667	4983.
2007	4.50 - 5.50	38673.	0.066667	2578.
2006	5.50 - 6.50	65034.	0.066667	4336.
2005	6.50 - 7.50	5104.	0.066667	340.
2004	7.50 - 8.50	49851.	0.066667	3323.
2003	8.50 - 9.50	0.	0.066667	0.
2002	9.50 - 10.50	112690.	0.066667	7513.
2001	10.50 - 11.50	97297.	0.066667	6486.
2000	11.50 - 12.50	62104.	0.066667	4140.
1999	12.50 - 13.50	12270.	0.066667	818.
1998	13.50 - 14.50	285578.	0.066667	19039.
1997	14.50 - 15.50	82055.	0.066667	5470.
1996	15.50 - 16.50	123107.	0.066667	8207.
1995	16.50 - 17.50	71089.	0.066667	4739.
1994	17.50 - 18.50	128610.	0.066667	8574.
1993	18.50 - 19.50	3932.	0.066667	262.
1992	19.50 - 20.50	42734.	0.066667	2849.
1991	20.50 - 21.50	3798.	0.066667	253.
1990	21.50 - 22.50	47544.	0.066667	3170.
1989	22.50 - 23.50	37018.	0.066667	2468.
1988	23.50 - 24.50	0.	0.066667	0.
1987	24.50 - 25.50	32464.	0.066667	2164.
1986	25.50 - 26.50	64025.	0.066667	4268.
1985	26.50 - 27.50	51215.	0.066667	3414.
1984	27.50 - 28.50	46153.	0.066667	3077.
1983	28.50 - 29.50	0.	0.066667	0.
1982	29.50 - 30.50	1041.	0.066667	69.
1981	30.50 - 31.50	1892.	0.066667	126.
1980	31.50 - 32.50	0.	0.066667	0.
1979	32.50 - 33.50	0.	0.066667	0.
1978	33.50 - 34.50	0.	0.066667	0.
1977	34.50 - 35.50	0.	0.066667	0.
1976	35.50 - 36.50	706.	0.066667	47.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600. Power Operated Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 15.0 YRS CURVE: IOWA S4 O.C. SALVAGE %: 5.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
SUBTOTAL :			2009237.	0.066667	133949.
NET SALVAGE:	5.0 %				-6697.
TOTAL :			2009237.	0.063333	127252.

MONTHLY RATE: 0.005278

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600. Power Operated Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 15.0 YRS CURVE: IOWA S4

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	182700.	14.5	2649150.
2010	1.50	200554.	13.5	2707479.
2009	2.50	85247.	12.5	1065587.
2008	3.50	74752.	11.5	859648.
2007	4.50	38673.	10.5	406066.
2006	5.50	65034.	9.5	617834.
2005	6.50	5104.	8.5	43392.
2004	7.50	49851.	7.5	374331.
2003	8.50	0.	6.5	0.
2002	9.50	112690.	5.6	631451.
2001	10.50	97297.	4.7	461342.
2000	11.50	62104.	4.0	246907.
1999	12.50	12270.	3.3	40711.
1998	13.50	285578.	2.8	790471.
1997	14.50	82055.	2.3	190061.
1996	15.50	123107.	1.9	239734.
1995	16.50	71089.	1.6	117059.
1994	17.50	128610.	1.4	179972.
1993	18.50	3932.	1.2	4699.
1992	19.50	42734.	1.0	43887.
1991	20.50	3798.	0.9	3358.
1990	21.50	47544.	0.8	36411.
1989	22.50	37018.	0.7	24791.
1988	23.50	0.	0.6	0.
1987	24.50	32464.	0.5	16232.
1986	25.50	64025.	0.0	0.
1985	26.50	51215.	0.0	0.
1984	27.50	46153.	0.0	0.
1983	28.50	0.	0.0	0.
1982	29.50	1041.	0.0	0.
1981	30.50	1892.	0.0	0.
1980	31.50	0.	0.0	0.
1979	32.50	0.	0.0	0.
1978	33.50	0.	0.0	0.
1977	34.50	0.	0.0	0.
1976	35.50	706.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600. Power Operated Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 15.0 YRS CURVE: IOWA S4

	I	II	III	IV	V
	YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
TOTAL:			2009237.	5.8	11750576.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600. Power Operated Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 15.0 YEARS CURVE: IOWA S4

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0333	100.00000	0.00000	50.00000	0.066667	3.33333	3.33333	0.033333
1.50	0.1000	100.00000	0.00000	100.00000	0.066667	6.66667	10.00000	0.100000
2.50	0.1667	100.00000	0.00000	100.00000	0.066667	6.66667	16.66667	0.166667
3.50	0.2333	100.00000	0.00000	100.00000	0.066667	6.66667	23.33333	0.233333
4.50	0.3000	100.00000	0.00000	100.00000	0.066667	6.66667	30.00000	0.300000
5.50	0.3667	99.99833	0.00167	99.99917	0.066667	6.66661	36.66494	0.366656
6.50	0.4333	99.98300	0.01533	99.99066	0.066667	6.66604	43.31565	0.433230
7.50	0.5000	99.89000	0.09300	99.93650	0.066667	6.66243	49.88509	0.499400
8.50	0.5667	99.51600	0.37400	99.70300	0.066667	6.64687	56.15795	0.564311
9.50	0.6333	98.40567	1.11033	98.96083	0.066667	6.59739	61.64501	0.626438
10.50	0.7000	95.81200	2.59367	97.10883	0.066667	6.47392	65.52527	0.683894
11.50	0.7667	90.80033	5.01167	93.30617	0.066667	6.22041	66.73401	0.734953
12.50	0.8333	82.66033	8.14000	86.73033	0.066667	5.78202	64.37603	0.778802
13.50	0.9000	71.27800	11.38233	76.96917	0.066667	5.13128	58.12498	0.815469
14.50	0.9667	57.40100	13.87700	64.33950	0.066667	4.28930	48.53728	0.845582
15.50	1.0333	42.59900	14.80200	50.00000	0.066667	3.33333	37.06861	0.870176
16.50	1.1000	28.72200	13.87700	35.66050	0.066667	2.37737	25.56898	0.890223
17.50	1.1667	17.33967	11.38233	23.03083	0.066667	1.53539	15.72203	0.906709
18.50	1.2333	9.19967	8.14000	13.26967	0.066667	0.88464	8.46668	0.920324
19.50	1.3000	4.18800	5.01167	6.69383	0.066667	0.44626	3.90127	0.931535
20.50	1.3667	1.59433	2.59367	2.89117	0.066667	0.19274	1.50034	0.941048
21.50	1.4333	0.48400	1.11033	1.03917	0.066667	0.06928	0.45929	0.948944
22.50	1.5000	0.11000	0.37400	0.29700	0.066667	0.01980	0.10509	0.955354
23.50	1.5667	0.01700	0.09300	0.06350	0.066667	0.00423	0.01632	0.960131
24.50	1.6333	0.00167	0.01533	0.00933	0.066667	0.00062	0.00161	0.966667
25.50	1.7000	0.00000	0.00167	0.00083	0.066667	0.00006	0.00000	1.000000
		1499.99999	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39600 Power Operated Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	182700.	0.	0.	0.	0.	0.	0.	0.	0
2010	200554.	0.	0.	0.	0.	0.	0.	0.	0
2009	85247.	1656.	0.	0.	0.	0.	0.	0.	0
2008	74752.	0.	0.	0.	0.	0.	0.	0.	0
2007	38673.	0.	0.	0.	0.	0.	0.	0.	0
2006	65034.	0.	0.	0.	0.	0.	0.	0.	0
2005	5104.	0.	0.	0.	0.	0.	0.	0.	0
2004	49851.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	112690.	0.	0.	0.	2672.	0.	0.	0.	0
2001	97297.	0.	0.	0.	10925.	0.	0.	0.	0
2000	62104.	0.	0.	1991.	0.	0.	5103.	0.	0
1999	12270.	0.	0.	0.	0.	16893.	0.	0.	0
1998	285578.	0.	0.	0.	0.	0.	14865.	0.	0
1997	82055.	0.	0.	0.	0.	0.	0.	0.	0
1996	123107.	0.	0.	0.	4246.	0.	0.	0.	3812
1995	71089.	0.	0.	0.	0.	0.	29783.	0.	14922
1994	128610.	0.	0.	0.	0.	0.	58017.	1505.	13529
1993	3932.	0.	13657.	0.	6348.	0.	0.	0.	7885
1992	42734.	0.	14399.	0.	0.	0.	0.	0.	0
1991	3798.	0.	0.	0.	0.	0.	0.	0.	27765
1990	47544.	1648.	0.	0.	0.	0.	13511.	0.	0
1989	37018.	0.	0.	0.	0.	0.	0.	0.	0
1988	0.	0.	0.	0.	0.	0.	9686.	0.	10703
1987	32464.	0.	40834.	0.	0.	0.	10932.	0.	0
1986	64025.	9299.	14385.	0.	0.	0.	43991.	10190.	0
1985	51215.	0.	0.	0.	0.	0.	0.	0.	0
1984	46153.	1999.	0.	0.	0.	0.	0.	0.	0
1983	0.	0.	0.	0.	0.	0.	0.	0.	0
1982	1041.	0.	0.	0.	0.	0.	0.	0.	0
1981	1892.	0.	0.	0.	0.	39611.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	0.	0.	0.	0.	0.	0.	0.	0.	0
1978	0.	0.	0.	0.	0.	0.	1806.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	0
1976	706.	5496.	0.	8307.	0.	0.	0.	0.	0
TOTAL	2009237.	20098.	83275.	10298.	24191.	56504.	187694.	11695.	78616

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600 Power Operated Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
2011	182700.	0.	0.	0.	0.	0.	0.	0.	0
2010	200554.	0.	0.	0.	0.	0.	0.	0.	0
2009	85247.	0.	0.	0.	0.	0.	0.	0.	0
2008	74752.	0.	0.	0.	0.	0.	0.	0.	0
2007	38673.	0.	0.	0.	0.	0.	0.	0.	0
2006	65034.	0.	0.	0.	0.	0.	0.	0.	0
2005	5104.	0.	0.	0.	0.	0.	0.	0.	0
2004	49851.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	112690.	1170.	0.	0.	0.	0.	0.	0.	0
2001	97297.	0.	0.	0.	0.	0.	0.	0.	0
2000	62104.	0.	0.	0.	0.	0.	0.	0.	0
1999	12270.	6592.	0.	0.	0.	0.	0.	0.	0
1998	285578.	40859.	1054.	0.	0.	0.	0.	0.	0
1997	82055.	0.	46741.	40529.	0.	1246.	0.	0.	0
1996	123107.	0.	0.	0.	6217.	0.	12006.	0.	0
1995	71089.	0.	0.	0.	0.	0.	0.	0.	0
1994	128610.	0.	0.	7299.	0.	14486.	0.	0.	0
1993	3932.	0.	0.	0.	0.	26171.	19455.	0.	0
1992	42734.	0.	0.	1008.	0.	0.	6121.	12876.	0
1991	3798.	523.	36422.	7102.	0.	17654.	0.	14453.	0
1990	47544.	0.	28703.	17040.	0.	0.	3872.	12128.	0
1989	37018.	0.	0.	0.	0.	1827.	0.	555.	0
1988	0.	0.	0.	0.	7659.	21279.	9726.	18674.	0
1987	32464.	0.	3614.	12019.	0.	0.	29995.	0.	0
1986	64025.	0.	8432.	29764.	16840.	9471.	0.	7273.	0
1985	51215.	0.	0.	646.	0.	0.	0.	9354.	0
1984	46153.	0.	0.	0.	11899.	0.	36992.	0.	22529
1983	0.	0.	0.	0.	0.	0.	68083.	0.	0
1982	1041.	0.	0.	0.	4256.	24791.	8682.	12026.	0
1981	1892.	0.	0.	0.	0.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	31380.	0
1979	0.	0.	0.	0.	0.	0.	0.	0.	7871
1978	0.	0.	0.	13520.	0.	0.	23749.	0.	6942
1977	0.	0.	0.	0.	0.	0.	23000.	0.	0
1976	706.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	2009237.	49144.	124966.	128927.	46871.	116925.	241681.	118719.	37342

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39600 Power Operated Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		1995	1994	1993	1992	1991	1990	1989	1988
2011	182700.	0.	0.	0.	0.	0.	0.	0.	0
2010	200554.	0.	0.	0.	0.	0.	0.	0.	0
2009	85247.	0.	0.	0.	0.	0.	0.	0.	0
2008	74752.	0.	0.	0.	0.	0.	0.	0.	0
2007	38673.	0.	0.	0.	0.	0.	0.	0.	0
2006	65034.	0.	0.	0.	0.	0.	0.	0.	0
2005	5104.	0.	0.	0.	0.	0.	0.	0.	0
2004	49851.	0.	0.	0.	0.	0.	0.	0.	0
2003	0.	0.	0.	0.	0.	0.	0.	0.	0
2002	112690.	0.	0.	0.	0.	0.	0.	0.	0
2001	97297.	0.	0.	0.	0.	0.	0.	0.	0
2000	62104.	0.	0.	0.	0.	0.	0.	0.	0
1999	12270.	0.	0.	0.	0.	0.	0.	0.	0
1998	285578.	0.	0.	0.	0.	0.	0.	0.	0
1997	82055.	0.	0.	0.	0.	0.	0.	0.	0
1996	123107.	0.	0.	0.	0.	0.	0.	0.	0
1995	71089.	0.	0.	0.	0.	0.	0.	0.	0
1994	128610.	0.	0.	0.	0.	0.	0.	0.	0
1993	3932.	0.	0.	0.	0.	0.	0.	0.	0
1992	42734.	0.	0.	0.	0.	0.	0.	0.	0
1991	3798.	0.	0.	0.	0.	0.	0.	0.	0
1990	47544.	0.	393.	0.	0.	0.	0.	0.	0
1989	37018.	3068.	0.	0.	0.	0.	3763.	0.	0
1988	0.	3263.	0.	0.	0.	0.	3763.	0.	0
1987	32464.	0.	12267.	0.	0.	0.	7802.	0.	0
1986	64025.	17979.	6665.	0.	28000.	0.	28200.	0.	17170
1985	51215.	0.	13268.	0.	0.	0.	0.	0.	0
1984	46153.	22626.	0.	0.	0.	0.	14167.	0.	0
1983	0.	7084.	0.	0.	0.	0.	8251.	0.	0
1982	1041.	0.	0.	0.	3332.	0.	0.	0.	0
1981	1892.	19058.	0.	0.	8628.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	0.	5047.	0.	7889.	4391.	0.	0.	0.	0
1978	0.	4739.	0.	0.	0.	0.	566.	0.	21759
1977	0.	0.	0.	1631.	0.	0.	0.	0.	0
1976	706.	0.	0.	0.	0.	20814.	0.	0.	0
TOTAL	2009237.	82864.	32593.	9520.	44351.	20814.	66512.	0.	38929

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39600 Power Operated Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984
2011	182700.	0.	0.	0.	0.
2010	200554.	0.	0.	0.	0.
2009	85247.	0.	0.	0.	0.
2008	74752.	0.	0.	0.	0.
2007	38673.	0.	0.	0.	0.
2006	65034.	0.	0.	0.	0.
2005	5104.	0.	0.	0.	0.
2004	49851.	0.	0.	0.	0.
2003	0.	0.	0.	0.	0.
2002	112690.	0.	0.	0.	0.
2001	97297.	0.	0.	0.	0.
2000	62104.	0.	0.	0.	0.
1999	12270.	0.	0.	0.	0.
1998	285578.	0.	0.	0.	0.
1997	82055.	0.	0.	0.	0.
1996	123107.	0.	0.	0.	0.
1995	71089.	0.	0.	0.	0.
1994	128610.	0.	0.	0.	0.
1993	3932.	0.	0.	0.	0.
1992	42734.	0.	0.	0.	0.
1991	3798.	0.	0.	0.	0.
1990	47544.	0.	0.	0.	0.
1989	37018.	0.	0.	0.	0.
1988	0.	0.	0.	0.	0.
1987	32464.	0.	0.	0.	0.
1986	64025.	0.	0.	0.	0.
1985	51215.	0.	0.	0.	0.
1984	46153.	0.	0.	0.	0.
1983	0.	0.	0.	0.	0.
1982	1041.	0.	0.	0.	0.
1981	1892.	0.	0.	0.	0.
1980	0.	2910.	0.	0.	0.
1979	0.	15955.	8429.	0.	0.
1978	0.	4981.	0.	0.	0.
1977	0.	0.	0.	3363.	11842.
1976	706.	0.	6811.	0.	0.
TOTAL	2009237.	23846.	15240.	3363.	11842.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39600 Power Operated Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1984 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	3245418.	0.	0.00000000	1.00000000	1.00000000
0.5	3146136.	4933.	0.00156796	0.99843204	1.00000000
1.5	2994777.	35841.	0.01196784	0.98803216	0.99843204
2.5	2942878.	7802.	0.00265115	0.99734885	0.98648297
3.5	2894614.	82985.	0.02866876	0.97133124	0.98386766
4.5	2822538.	134417.	0.04762274	0.95237726	0.95566140
5.5	2701149.	99755.	0.03693058	0.96306942	0.91015018
6.5	2636126.	77314.	0.02932864	0.97067136	0.87653780
7.5	2551096.	83634.	0.03278356	0.96721644	0.85083014
8.5	2467461.	72823.	0.02951333	0.97048667	0.82293690
9.5	2281948.	64086.	0.02808390	0.97191610	0.79864929
10.5	2120565.	182436.	0.08603179	0.91396821	0.77622010
11.5	1876025.	138681.	0.07392279	0.92607721	0.70944050
12.5	1725074.	41627.	0.02413056	0.97586944	0.65699668
13.5	1397869.	92798.	0.06638533	0.93361467	0.64114298
14.5	1223016.	140649.	0.11500177	0.88499823	0.59858049
15.5	959260.	60551.	0.06312262	0.93687738	0.52974268
16.5	827620.	82438.	0.09960852	0.90039148	0.49630393
17.5	616572.	35283.	0.05722446	0.94277554	0.44686784
18.5	577357.	21122.	0.03658395	0.96341605	0.42129607
19.5	513501.	67740.	0.13191795	0.86808205	0.40588339
20.5	441963.	24648.	0.05576937	0.94423063	0.35234009
21.5	369771.	0.	0.00000000	1.00000000	0.33269030
22.5	332754.	54354.	0.16334590	0.83665410	0.33269030
23.5	278399.	14385.	0.05167044	0.94832956	0.27834670
24.5	231550.	9299.	0.04015979	0.95984021	0.26396441
25.5	158226.	39611.	0.25034444	0.74965556	0.25336365
26.5	67400.	1999.	0.02965875	0.97034125	0.18993547
27.5	19249.	1806.	0.09382306	0.90617694	0.18430222
28.5	17442.	0.	0.00000000	1.00000000	0.16701042
29.5	16401.	0.	0.00000000	1.00000000	0.16701042
30.5	14510.	0.	0.00000000	1.00000000	0.16701042
31.5	14510.	0.	0.00000000	1.00000000	0.16701042
32.5	14510.	8307.	0.57250172	0.42749828	0.16701042
33.5	6203.	0.	0.00000000	1.00000000	0.07139667
34.5	6202.	5496.	0.88616575	0.11383425	0.07139667
TOTAL		1686820.			18.03150163

PGS - 2011 CASE

P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39600 Power Operated Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1984	1988	14.32	0.006443	317.81	2.00	1.50	0.00	1.00
1985	1989	17.38	0.005552	325.13	1.88	1.50	0.00	1.00
1986	1990	17.81	0.004978	390.17	1.16	0.50	SC	0.50
1987	1991	17.59	0.008301	355.24	1.49	1.00	-0.50	0.50
1988	1992	18.58	0.006851	379.35	1.26	0.50	SC	0.50
1989	1993	21.73	0.004987	370.38	1.35	0.50	SC	0.50
1990	1994	22.28	0.004481	410.61	0.95	0.00	SC	0.50
1991	1995	18.60	0.004643	314.48	2.07	2.00	0.50	1.00
1992	1996	19.25	0.004640	319.40	1.97	1.50	0.00	1.00
1993	1997	17.58	0.007736	315.70	2.01	1.50	0.00	1.00
1994	1998	13.91	0.011926	298.27	2.27	2.00	0.50	1.50
1995	1999	13.21	0.012055	306.66	2.11	2.00	0.50	1.50
1996	2000	13.74	0.012707	309.42	2.07	2.00	0.50	1.00
1997	2001	12.97	0.010911	327.58	1.89	1.50	0.00	1.00
1998	2002	12.89	0.011101	345.20	1.63	1.00	-0.50	0.50
1999	2003	15.93	0.009562	442.65	0.63	0.00	SC	0.50
2000	2004	17.31	0.009346	464.99	0.44	0.00	SC	0.50
2001	2005	19.61	0.008673	563.36	-0.35	0.00	SC	0.50
2002	2006	17.08	0.011250	465.59	0.46	0.00	SC	0.50
2003	2007	19.06	0.012704	369.79	1.36	0.50	SC	0.50
2004	2008	20.16	0.012586	349.73	1.57	1.00	-0.50	0.50
2005	2009	22.83	0.013383	326.33	1.89	1.50	0.00	1.00
2006	2010	21.08	0.010114	305.97	2.17	2.00	0.50	1.50
2007	2011	26.26	0.008689	283.75	2.53	2.00	1.00	2.00

PGS - 2011 CASE

P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39600 Power Operated Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	26.26	0.008689	283.75	2.53	2.00	1.00	2.00
2006	2011	22.41	0.008939	305.72	2.18	2.00	0.50	1.50
2005	2011	23.34	0.008056	306.29	2.21	2.00	0.50	1.50
2004	2011	22.81	0.006973	317.82	2.02	1.50	0.00	1.00
2003	2011	22.88	0.006809	343.05	1.71	1.00	-0.50	0.50
2002	2011	21.42	0.007430	375.84	1.30	0.50	SC	0.50
2001	2011	20.25	0.007139	387.67	1.14	0.50	SC	0.50
2000	2011	20.38	0.006837	380.31	1.25	0.50	SC	0.50
1999	2011	19.63	0.006540	389.80	1.14	0.50	SC	0.50
1998	2011	17.83	0.006681	384.21	1.21	0.50	SC	0.50
1997	2011	17.44	0.006502	387.03	1.18	0.50	SC	0.50
1996	2011	17.68	0.006346	376.06	1.27	0.50	SC	0.50
1995	2011	17.54	0.006197	373.33	1.30	0.50	SC	0.50
1994	2011	17.71	0.005974	375.57	1.31	0.50	SC	0.50
1993	2011	17.98	0.005796	364.36	1.38	0.50	SC	0.50
1992	2011	17.97	0.005646	370.03	1.38	0.50	SC	0.50
1991	2011	18.08	0.005603	362.26	1.45	1.00	-0.50	0.50
1990	2011	17.89	0.005495	371.64	1.34	0.50	SC	0.50
1989	2011	18.07	0.005379	368.05	1.39	0.50	SC	0.50
1988	2011	17.99	0.005195	369.59	1.38	0.50	SC	0.50
1987	2011	17.97	0.005088	364.40	1.39	0.50	SC	0.50
1986	2011	17.98	0.005015	364.38	1.40	0.50	-0.50	0.50
1985	2011	18.02	0.004976	363.41	1.42	1.00	-0.50	0.50
1984	2011	18.01	0.004932	363.64	1.42	1.00	-0.50	0.50

PGS - 2011 CASE

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39600 Power Operated Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1984	1988	13.06	0.006438	264.25	2.68	3.00	1.50	2.00
1985	1989	16.35	0.005632	266.12	2.24	2.00	0.50	1.50
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	14.82	0.008264	232.76	2.20	2.00	0.50	1.50
1988	1992	15.65	0.006847	245.97	1.93	1.50	0.00	1.00
1989	1993	17.34	0.004895	233.62	2.11	2.00	0.50	1.50
1990	1994	21.00	0.004549	335.67	1.24	0.50	SC	0.50
1991	1995	18.44	0.004718	295.57	2.15	2.00	0.50	1.50
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	17.55	0.007856	316.21	2.02	1.50	0.00	1.00
1994	1998	13.84	0.011720	249.28	2.42	2.00	1.00	1.50
1995	1999	13.22	0.012073	261.04	2.20	2.00	0.50	1.50
1996	2000	13.74	0.012800	265.67	2.18	2.00	0.50	1.50
1997	2001	12.90	0.011027	290.81	1.87	1.50	0.00	1.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2005	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	21.65	0.013559	270.22	1.90	1.50	0.00	1.00
2006	2010	20.37	0.010189	262.70	2.13	2.00	0.50	1.50
2007	2011	24.36	0.007967	199.08	2.82	3.00	1.50	2.00

PGS - 2011 CASE

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39600 Power Operated Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	24.36	0.007967	199.08	2.82	3.00	1.50	2.00
2006	2011	21.29	0.008876	246.58	2.16	2.00	0.50	1.50
2005	2011	22.20	0.007991	241.04	2.30	2.00	0.50	1.50
2004	2011	21.89	0.006999	262.73	2.10	2.00	0.50	1.00
2003	2011	21.26	0.006766	265.80	1.77	1.50	0.00	1.00
2002	2011	20.27	0.007485	298.42	1.42	1.00	-0.50	0.50
2001	2011	19.35	0.007202	312.65	1.26	0.50	SC	0.50
2000	2011	19.71	0.006916	317.06	1.36	0.50	SC	0.50
1999	2011	19.33	0.006636	354.32	1.21	0.50	SC	0.50
1998	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1984	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00

PGS - 2011 CASE P

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39600 Power Operated Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1984	1988	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1985	1989	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1986	1990	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1987	1991	13.86	0.007872	155.15	2.90	3.00	1.50	2.50
1988	1992	14.53	0.006691	168.60	2.60	3.00	1.00	2.00
1989	1993	15.91	0.004536	160.27	2.93	3.00	1.50	2.50
1990	1994	17.14	0.004514	189.65	2.31	2.00	0.50	1.50
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	13.84	0.011899	249.31	2.45	2.00	1.00	2.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	16.95	0.009477	297.93	0.66	0.00	SC	0.50
2000	2004	27.88	0.009174	281.61	-2.28	0.00	SC	0.50
2001	2005	25.24	0.008587	263.44	-0.24	0.00	SC	0.50
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	18.82	0.013035	241.76	1.78	1.50	0.00	1.00
2004	2008	20.21	0.012875	254.77	1.82	1.50	0.00	1.00
2005	2009	21.53	0.013598	202.06	2.27	2.00	0.50	1.50
2006	2010	20.47	0.010317	227.20	2.29	2.00	0.50	1.50
2007	2011	24.64	0.007777	168.41	3.23	3.00	2.00	2.50

PGS - 2011 CASE

P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39600 Power Operated Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	24.64	0.007777	168.41	3.23	3.00	2.00	2.50
2006	2011	21.33	0.008843	203.95	2.37	2.00	1.00	1.50
2005	2011	22.19	0.007968	200.53	2.53	2.00	1.00	2.00
2004	2011	21.57	0.006857	206.28	2.31	2.00	0.50	1.50
2003	2011	21.30	0.006610	204.25	2.12	2.00	0.50	1.50
2002	2011	20.20	0.007284	215.39	1.83	1.50	0.00	1.00
2001	2011	19.34	0.007026	224.87	1.68	1.00	-0.50	0.50
2000	2011	19.53	0.006779	227.91	1.74	1.50	0.00	0.50
1999	2011	18.91	0.006441	229.98	1.62	1.00	-0.50	0.50
1998	2011	17.69	0.006767	262.87	1.51	1.00	-0.50	0.50
1997	2011	17.39	0.006570	267.46	1.47	1.00	-0.50	0.50
1996	2011	17.62	0.006439	269.60	1.52	1.00	-0.50	0.50
1995	2011	17.53	0.006273	270.99	1.52	1.00	-0.50	0.50
1994	2011	17.66	0.006037	268.94	1.54	1.00	-0.50	0.50
1993	2011	17.92	0.005882	270.68	1.59	1.00	-0.50	0.50
1992	2011	17.91	0.005719	265.15	1.59	1.00	-0.50	0.50
1991	2011	18.05	0.005702	268.74	1.62	1.00	-0.50	0.50
1990	2011	17.85	0.005599	271.64	1.56	1.00	-0.50	0.50
1989	2011	18.02	0.005486	269.22	1.60	1.00	-0.50	0.50
1988	2011	17.94	0.005301	275.91	1.57	1.00	-0.50	0.50
1987	2011	17.93	0.005178	270.57	1.57	1.00	-0.50	0.50
1986	2011	17.93	0.005097	270.45	1.58	1.00	-0.50	0.50
1985	2011	17.98	0.005059	275.33	1.59	1.00	-0.50	0.50
1984	2011	17.97	0.005008	269.89	1.59	1.00	-0.50	0.50

Peoples Gas System
Net Salvage Analysis
Account - 396.00 - Power Operated Equipment
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	83,274	0	0	3,500	4	3,500	4
2009	10,298	0	0	0	0	0	0
2008	24,190	0	0	6,780	28	6,780	28
2007	56,504	0	0	4,700	8	4,700	8
2006	196,129	(1,599)	(1)	25,531	13	23,932	12
2005	11,695	(56)	(0)	400	3	344	3
2004	78,615	(109)	(0)	5,500	7	5,391	7
2003	59,551	0	0	400	1	400	1
2002	124,966	(51)	(0)	34,100	27	34,049	27
2001	128,927	0	0	4,000	3	4,000	3
2000	57,532	0	0	4,600	8	4,600	8
1999	128,900	0	0	5,331	4	5,331	4
1998	241,681	0	0	17,300	7	17,300	7
1997	121,856	0	0	6,400	5	6,400	5
1996	37,342	0	0	800	2	800	2
1995	103,843	0	0	3,550	3	3,550	3
1994	107,274	0	0	400	0	400	0
1993	11,042	0	0	1,450	13	1,450	13
1992	72,845	0	0	0	0	0	0
1991	52,596	0	0	1,300	2	1,300	2
1990	102,775	0	0	13,386	13	13,386	13
1989	7,000	0	0	4,611	66	4,611	66
1988	44,382	0	0	1,010	2	1,010	2
1987	69,613	(25)	(0)	3,920	6	3,895	6
1986	61,945	(42)	(0)	1,100	2	1,058	2
1985	39,634	(76)	(0)	5,250	13	5,174	13
1984	31,318	0	0	1,250	4	1,250	4
1983	21,938	0	0	800	4	800	4
1982	0	0	0	0	0	0	0
	2,087,662	**(1,958)**	**(0)**	**157,370**	**8**	**155,411**	**7**

Peoples Gas System
Net Salvage Analysis
Account - 396.00 - Power Operated Equipment
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	370,395	(1,599)	(0)	40,511	11	38,912	11
2009	298,816	(1,655)	(1)	37,411	13	35,756	12
2008	367,134	(1,764)	(0)	42,911	12	41,147	11
2007	402,494	(1,764)	(0)	36,531	9	34,767	9
2006	470,956	(1,815)	(0)	65,931	14	64,116	14
2005	403,754	(216)	(0)	44,400	11	44,184	11
2004	449,591	(160)	(0)	48,600	11	48,440	11
2003	499,875	(51)	(0)	48,431	10	48,380	10
2002	682,005	(51)	(0)	65,331	10	65,280	10
2001	678,896	0	0	37,631	6	37,631	6
2000	587,310	0	0	34,431	6	34,431	6
1999	633,622	0	0	33,381	5	33,381	5
1998	611,996	0	0	28,450	5	28,450	5
1997	381,357	0	0	12,600	3	12,600	3
1996	332,345	0	0	6,200	2	6,200	2
1995	347,599	0	0	6,700	2	6,700	2
1994	346,531	0	0	16,536	5	16,536	5
1993	246,257	0	0	20,747	8	20,747	8
1992	279,597	0	0	20,307	7	20,307	7
1991	276,365	(25)	(0)	24,227	9	24,202	9
1990	285,715	(67)	(0)	24,027	8	23,961	8
1989	222,573	(143)	(0)	15,891	7	15,748	7
1988	246,891	(143)	(0)	12,530	5	12,387	5
1987	224,448	(143)	(0)	12,320	5	12,177	5
1986	154,835	(118)	(0)	8,400	5	8,282	5

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700. Communications Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 12.0 YRS CURVE: IOWA S3 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	629828.	0.041667	26243.	603585.
2010	1.50	274685.	0.125000	34336.	240349.
2009	2.50	619053.	0.208293	128944.	490109.
2008	3.50	32553.	0.291256	9481.	23072.
2007	4.50	531805.	0.372988	198357.	333448.
2006	5.50	160087.	0.451828	72332.	87755.
2005	6.50	176000.	0.525695	92522.	83478.
2004	7.50	14713.	0.592779	8722.	5991.
2003	8.50	395452.	0.652054	257856.	137596.
2002	9.50	1012696.	0.703317	712247.	300449.
2001	10.50	224381.	0.747074	167629.	56752.
2000	11.50	5948.	0.784210	4664.	1284.
1999	12.50	195111.	0.815712	159154.	35957.
1998	13.50	1687160.	0.842539	1421499.	265661.
1997	14.50	157861.	0.865511	136630.	21231.
1996	15.50	78258.	0.885320	69283.	8975.
1995	16.50	4746.	0.902545	4283.	463.
1994	17.50	66905.	0.917497	61385.	5520.
1993	18.50	32534.	0.930441	30271.	2263.
1992	19.50	12035.	0.941581	11332.	703.
1991	20.50	9360.	0.950897	8900.	460.
1990	21.50	19397.	0.958333	18589.	808.
1989	22.50	3702.	1.000000	3702.	0.
1988	23.50	8400.	1.000000	8400.	0.
1987	24.50	21892.	1.000000	21892.	0.
1986	25.50	16356.	1.000000	16356.	0.
1985	26.50	14482.	1.000000	14482.	0.
1984	27.50	5430.	1.000000	5430.	0.
1983	28.50	3859.	1.000000	3859.	0.
1982	29.50	25878.	1.000000	25878.	0.
1981	30.50	9901.	1.000000	9901.	0.
1980	31.50	0.	1.000000	0.	0.
1979	32.50	0.	1.000000	0.	0.
1978	33.50	0.	1.000000	0.	0.
1977	34.50	0.	1.000000	0.	0.
1976	35.50	0.	1.000000	0.	0.
1975	36.50	0.	1.000000	0.	0.
1974	37.50	0.	1.000000	0.	0.
1973	38.50	0.	1.000000	0.	0.
1972	39.50	0.	1.000000	0.	0.
1971	40.50	0.	1.000000	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700. Communications Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 12.0 YRS CURVE: IOWA S3 O.C. SALVAGE %: 0.

	I	II	III	IV	V	VI
	YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
	1970	41.50	0.	1.000000	0.	0.
	1969	42.50	226.	1.000000	226.	0.
	1968	43.50	0.	1.000000	0.	0.
	1967	44.50	704.	1.000000	704.	0.
SUBTOTAL :				0.580570	3745491.	2705907.
NET SALVAGE:	0.0%				0.	0.
TOTAL :			6451398.	0.580570	3745491.	2705907.

WEIGHTED AGE: 8.8 YEARS
REMAINING LIFE: 5.0 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700. Communications Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 12.0 YRS CURVE: IOWA S3 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	629828.	0.083333	52486.
2010	1.50 - 2.50	274685.	0.083333	22890.
2009	2.50 - 3.50	619053.	0.083333	51588.
2008	3.50 - 4.50	32553.	0.083333	2713.
2007	4.50 - 5.50	531805.	0.083333	44317.
2006	5.50 - 6.50	160087.	0.083333	13341.
2005	6.50 - 7.50	176000.	0.083333	14667.
2004	7.50 - 8.50	14713.	0.083333	1226.
2003	8.50 - 9.50	395452.	0.083333	32954.
2002	9.50 - 10.50	1012696.	0.083333	84391.
2001	10.50 - 11.50	224381.	0.083333	18698.
2000	11.50 - 12.50	5948.	0.083333	496.
1999	12.50 - 13.50	195111.	0.083333	16259.
1998	13.50 - 14.50	1687160.	0.083333	140597.
1997	14.50 - 15.50	157861.	0.083333	13155.
1996	15.50 - 16.50	78258.	0.083333	6521.
1995	16.50 - 17.50	4746.	0.083333	395.
1994	17.50 - 18.50	66905.	0.083333	5575.
1993	18.50 - 19.50	32534.	0.083333	2711.
1992	19.50 - 20.50	12035.	0.083333	1003.
1991	20.50 - 21.50	9360.	0.083333	780.
1990	21.50 - 22.50	19397.	0.083333	1616.
1989	22.50 - 23.50	3702.	0.083333	308.
1988	23.50 - 24.50	8400.	0.083333	700.
1987	24.50 - 25.50	21892.	0.083333	1824.
1986	25.50 - 26.50	16356.	0.083333	1363.
1985	26.50 - 27.50	14482.	0.083333	1207.
1984	27.50 - 28.50	5430.	0.083333	452.
1983	28.50 - 29.50	3859.	0.083333	322.
1982	29.50 - 30.50	25878.	0.083333	2156.
1981	30.50 - 31.50	9901.	0.083333	825.
1980	31.50 - 32.50	0.	0.083333	0.
1979	32.50 - 33.50	0.	0.083333	0.
1978	33.50 - 34.50	0.	0.083333	0.
1977	34.50 - 35.50	0.	0.083333	0.
1976	35.50 - 36.50	0.	0.083333	0.
1975	36.50 - 37.50	0.	0.083333	0.
1974	37.50 - 38.50	0.	0.083333	0.
1973	38.50 - 39.50	0.	0.083333	0.
1972	39.50 - 40.50	0.	0.083333	0.
1971	40.50 - 41.50	0.	0.083333	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700. Communications Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 12.0 YRS CURVE: IOWA S3 O.C. SALVAGE %: 0.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
	1970	41.50 - 42.50	0.	0.083333	0.
	1969	42.50 - 43.50	226.	0.083333	19.
	1968	43.50 - 44.50	0.	0.083333	0.
	1967	44.50 - 45.50	704.	0.083333	59.
SUBTOTAL :			6451398.	0.083333	537616.
NET SALVAGE:	0.0 %				0.
TOTAL :			6451398.	0.083333	537616.

MONTHLY RATE: 0.006944

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39700. Communications Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 12.0 YRS CURVE: IOWA S3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	629828.	11.5	7243022.
2010	1.50	274685.	10.5	2884193.
2009	2.50	619053.	9.5	5881303.
2008	3.50	32553.	8.5	276861.
2007	4.50	531805.	7.5	4001376.
2006	5.50	160087.	6.6	1053063.
2005	6.50	176000.	5.7	1001733.
2004	7.50	14713.	4.9	71897.
2003	8.50	395452.	4.2	1651151.
2002	9.50	1012696.	3.6	3605392.
2001	10.50	224381.	3.0	681020.
2000	11.50	5948.	2.6	15402.
1999	12.50	195111.	2.2	431478.
1998	13.50	1687160.	1.9	3187935.
1997	14.50	157861.	1.6	254768.
1996	15.50	78258.	1.4	107696.
1995	16.50	4746.	1.2	5550.
1994	17.50	66905.	1.0	66238.
1993	18.50	32534.	0.8	27156.
1992	19.50	12035.	0.7	8437.
1991	20.50	9360.	0.6	5515.
1990	21.50	19397.	0.5	9699.
1989	22.50	3702.	0.0	0.
1988	23.50	8400.	0.0	0.
1987	24.50	21892.	0.0	0.
1986	25.50	16356.	0.0	0.
1985	26.50	14482.	0.0	0.
1984	27.50	5430.	0.0	0.
1983	28.50	3859.	0.0	0.
1982	29.50	25878.	0.0	0.
1981	30.50	9901.	0.0	0.
1980	31.50	0.	0.0	0.
1979	32.50	0.	0.0	0.
1978	33.50	0.	0.0	0.
1977	34.50	0.	0.0	0.
1976	35.50	0.	0.0	0.
1975	36.50	0.	0.0	0.
1974	37.50	0.	0.0	0.
1973	38.50	0.	0.0	0.
1972	39.50	0.	0.0	0.
1971	40.50	0.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700. Communications Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 12.0 YRS CURVE: IOWA S3

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	0.	0.0	0.
1969	42.50	226.	0.0	0.
1968	43.50	0.	0.0	0.
1967	44.50	704.	0.0	0.
TOTAL:		6451398.	5.0	32470885.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700. Communications Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 12.0 YEARS CURVE: IOWA S3

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0417	100.00000	0.00000	50.00000	0.083333	4.16667	4.16667	0.041667
1.50	0.1250	100.00000	0.00000	100.00000	0.083333	8.33333	12.50000	0.125000
2.50	0.2083	99.99517	0.00483	99.99758	0.083333	8.33313	20.82830	0.208293
3.50	0.2917	99.94583	0.04933	99.97050	0.083333	8.33088	29.10984	0.291256
4.50	0.3750	99.70650	0.23933	99.82617	0.083333	8.31885	37.18935	0.372988
5.50	0.4583	98.94683	0.75967	99.32667	0.083333	8.27722	44.70691	0.451828
6.50	0.5417	97.13150	1.81533	98.03917	0.083333	8.16993	51.06151	0.525695
7.50	0.6250	93.61550	3.51600	95.37350	0.083333	7.94779	55.49330	0.592779
8.50	0.7083	87.83483	5.78067	90.72517	0.083333	7.56043	57.27306	0.652054
9.50	0.7917	79.50950	8.32533	83.67216	0.083333	6.97268	55.92041	0.703317
10.50	0.8750	68.82800	10.68150	74.16875	0.083333	6.18073	51.41964	0.747074
11.50	0.9583	56.47767	12.35033	62.65284	0.083333	5.22107	44.29038	0.784210
12.50	1.0417	43.52233	12.95534	50.00000	0.083333	4.16667	35.50171	0.815712
13.50	1.1250	31.17200	12.35033	37.34716	0.083333	3.11226	26.26364	0.842539
14.50	1.2083	20.49050	10.68150	25.83125	0.083333	2.15260	17.73475	0.865511
15.50	1.2917	12.16517	8.32533	16.32784	0.083333	1.36065	10.77006	0.885320
16.50	1.3750	6.38450	5.78067	9.27483	0.083333	0.77290	5.76230	0.902545
17.50	1.4583	2.86850	3.51600	4.62650	0.083333	0.38554	2.63184	0.917497
18.50	1.5417	1.05317	1.81533	1.96083	0.083333	0.16340	0.97991	0.930441
19.50	1.6250	0.29350	0.75967	0.67333	0.083333	0.05611	0.27635	0.941581
20.50	1.7083	0.05417	0.23933	0.17383	0.083333	0.01449	0.05151	0.950897
21.50	1.7917	0.00483	0.04933	0.02950	0.083333	0.00246	0.00463	0.958333
22.50	1.8750	0.00000	0.00483	0.00242	0.083333	0.00020	0.00000	1.000000
		1200.00000	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	629828.	0.	0.	0.	0.	0.	0.	0.	0
2010	274685.	0.	0.	0.	0.	0.	0.	0.	0
2009	619053.	0.	0.	0.	0.	0.	0.	0.	0
2008	32553.	0.	0.	0.	0.	0.	0.	0.	0
2007	531805.	0.	0.	0.	0.	0.	0.	0.	0
2006	160087.	0.	0.	0.	0.	0.	0.	0.	0
2005	176000.	0.	0.	0.	0.	0.	0.	0.	0
2004	14713.	0.	0.	0.	0.	0.	0.	0.	0
2003	395452.	0.	0.	0.	0.	0.	0.	0.	0
2002	1012696.	0.	0.	0.	145684.	26844.	1824.	31962.	0
2001	224381.	0.	0.	0.	0.	15543.	0.	0.	0
2000	5948.	0.	0.	0.	0.	7140.	0.	0.	0
1999	195111.	0.	0.	0.	0.	0.	0.	0.	0
1998	1687160.	0.	0.	0.	7487.	0.	102818.	0.	58971
1997	157861.	0.	0.	0.	0.	2702.	6005.	0.	0
1996	78258.	0.	0.	0.	28968.	0.	11353.	0.	0
1995	4746.	0.	0.	0.	13627.	0.	1995.	0.	760
1994	66905.	0.	0.	0.	0.	0.	3989.	0.	69741
1993	32534.	0.	0.	0.	0.	0.	12456.	0.	19161
1992	12035.	0.	0.	0.	14093.	0.	24151.	0.	0
1991	9360.	0.	0.	0.	15903.	18582.	0.	0.	0
1990	19397.	0.	0.	0.	17003.	26434.	0.	0.	29588
1989	3702.	0.	0.	0.	0.	0.	0.	0.	0
1988	8400.	0.	0.	0.	527.	0.	6748.	0.	0
1987	21892.	0.	0.	0.	0.	0.	940.	0.	0
1986	16356.	0.	0.	0.	738.	0.	0.	0.	738
1985	14482.	0.	0.	0.	0.	0.	1111.	0.	0
1984	5430.	0.	0.	0.	0.	0.	0.	0.	0
1983	3859.	0.	0.	0.	0.	0.	0.	0.	0
1982	25878.	0.	0.	0.	0.	0.	20510.	0.	0
1981	9901.	0.	0.	0.	0.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	0.	0.	0.	0.	0.	0.	0.	0.	0
1978	0.	0.	0.	0.	0.	0.	0.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	0
1976	0.	0.	0.	0.	0.	0.	0.	0.	0
1975	0.	0.	0.	0.	0.	0.	0.	0.	0
1974	0.	0.	0.	0.	0.	0.	0.	0.	0
1973	0.	0.	0.	0.	0.	0.	0.	0.	0
1972	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	226.	0.	0.	0.	0.	0.	0.	0.	0
1968	0.	0.	0.	0.	0.	0.	0.	0.	0
1967	704.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	6451398.	0.	0.	0.	244030.	97245.	193900.	31962.	178959

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	629828.	0.	0.	0.	0.	0.	0.	0.	0
2010	274685.	0.	0.	0.	0.	0.	0.	0.	0
2009	619053.	0.	0.	0.	0.	0.	0.	0.	0
2008	32553.	0.	0.	0.	0.	0.	0.	0.	0
2007	531805.	0.	0.	0.	0.	0.	0.	0.	0
2006	160087.	0.	0.	0.	0.	0.	0.	0.	0
2005	176000.	0.	0.	0.	0.	0.	0.	0.	0
2004	14713.	0.	0.	0.	0.	0.	0.	0.	0
2003	395452.	0.	0.	0.	0.	0.	0.	0.	0
2002	1012696.	0.	0.	0.	0.	0.	0.	0.	0
2001	224381.	0.	0.	0.	0.	0.	0.	0.	0
2000	5948.	0.	0.	0.	0.	0.	0.	0.	0
1999	195111.	0.	0.	0.	0.	0.	0.	0.	0
1998	1687160.	647536.	0.	0.	4694.	0.	0.	0.	0
1997	157861.	0.	3188.	113807.	2835.	2986.	8032.	0.	0
1996	78258.	0.	0.	819.	12663.	10591.	3113.	0.	0
1995	4746.	0.	1618.	3946.	103720.	13522.	10251.	2232.	0
1994	66905.	4154.	2600.	4081.	12790.	32085.	7636.	5471.	0
1993	32534.	42597.	4823.	11244.	72906.	23666.	70259.	0.	0
1992	12035.	0.	4725.	14854.	23504.	33915.	22611.	1439.	808
1991	9360.	0.	5860.	39422.	191005.	0.	15232.	170799.	0
1990	19397.	0.	2637.	6911.	40713.	14121.	21966.	18985.	0
1989	3702.	7331.	806.	3328.	56980.	26428.	13373.	3458.	0
1988	8400.	0.	981.	1633.	14079.	66454.	9836.	18000.	0
1987	21892.	0.	0.	5748.	4554.	11836.	26045.	3005.	0
1986	16356.	0.	1116.	37955.	28709.	46336.	25556.	0.	12981
1985	14482.	0.	0.	24657.	10037.	1108.	38811.	0.	571
1984	5430.	0.	0.	30946.	94693.	0.	8612.	1543.	800
1983	3859.	0.	0.	0.	2730.	0.	8058.	3127.	597
1982	25878.	0.	0.	30345.	104128.	0.	2790.	382.	4808
1981	9901.	0.	0.	0.	1071.	0.	1314.	4186.	4178
1980	0.	0.	0.	1227.	1417.	1818.	0.	6561.	0
1979	0.	0.	0.	0.	5279.	0.	1827.	15175.	0
1978	0.	0.	0.	1149.	1207.	0.	0.	0.	1629
1977	0.	0.	0.	0.	1036.	3792.	1935.	5383.	4290
1976	0.	0.	0.	974.	470.	0.	0.	0.	1526
1975	0.	0.	0.	886.	1460.	0.	7405.	0.	0
1974	0.	0.	0.	0.	533.	0.	895.	5594.	2577
1973	0.	0.	0.	2071.	2162.	0.	344.	0.	917
1972	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2003	2002	2001	2000	1999	1998	1997	1996
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	0.	0.	0.	0.	0.	0.	0.	0.	0
1969	226.	0.	0.	0.	0.	0.	0.	0.	0
1968	0.	0.	0.	0.	0.	0.	0.	0.	0
1967	704.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	6451398.	701618.	28354.	336003.	795375.	288658.	305901.	265340.	35682

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	629828.	0.	0.	0.	0.	0.	0.	0.	0
2010	274685.	0.	0.	0.	0.	0.	0.	0.	0
2009	619053.	0.	0.	0.	0.	0.	0.	0.	0
2008	32553.	0.	0.	0.	0.	0.	0.	0.	0
2007	531805.	0.	0.	0.	0.	0.	0.	0.	0
2006	160087.	0.	0.	0.	0.	0.	0.	0.	0
2005	176000.	0.	0.	0.	0.	0.	0.	0.	0
2004	14713.	0.	0.	0.	0.	0.	0.	0.	0
2003	395452.	0.	0.	0.	0.	0.	0.	0.	0
2002	1012696.	0.	0.	0.	0.	0.	0.	0.	0
2001	224381.	0.	0.	0.	0.	0.	0.	0.	0
2000	5948.	0.	0.	0.	0.	0.	0.	0.	0
1999	195111.	0.	0.	0.	0.	0.	0.	0.	0
1998	1687160.	0.	0.	0.	0.	0.	0.	0.	0
1997	157861.	0.	0.	0.	0.	0.	0.	0.	0
1996	78258.	0.	0.	0.	0.	0.	0.	0.	0
1995	4746.	0.	0.	0.	0.	0.	0.	0.	0
1994	66905.	844.	0.	0.	0.	0.	0.	0.	0
1993	32534.	22488.	501.	0.	0.	0.	0.	0.	0
1992	12035.	0.	1294.	0.	0.	0.	0.	0.	0
1991	9360.	1260.	0.	0.	0.	2843.	0.	0.	0
1990	19397.	74225.	637.	1282.	0.	896.	0.	0.	0
1989	3702.	20809.	40273.	833.	0.	604.	0.	0.	0
1988	8400.	30711.	4844.	2495.	0.	98589.	0.	817.	0
1987	21892.	9529.	3548.	140799.	0.	952.	0.	0.	0
1986	16356.	197221.	3179.	1348.	12392.	75579.	0.	0.	1061
1985	14482.	82297.	64374.	3248.	0.	0.	0.	0.	0
1984	5430.	400.	40134.	8003.	0.	0.	0.	0.	0
1983	3859.	0.	1656.	9559.	1040.	653.	0.	0.	0
1982	25878.	0.	3874.	0.	0.	0.	6854.	0.	0
1981	9901.	0.	3400.	1135.	317.	488.	0.	0.	488
1980	0.	0.	0.	1182.	0.	435.	1127.	0.	0
1979	0.	0.	4932.	0.	441.	6077.	0.	343.	0
1978	0.	0.	5524.	3823.	10209.	3139.	0.	0.	0
1977	0.	1898.	3961.	552.	1882.	1733.	604.	373.	604
1976	0.	0.	0.	0.	4873.	2093.	0.	2199.	2190
1975	0.	343.	314.	3424.	2657.	10418.	0.	0.	0
1974	0.	0.	0.	2348.	13134.	2771.	0.	4229.	9785
1973	0.	776.	1763.	4546.	3881.	23657.	0.	5015.	9120
1972	0.	109.	0.	3585.	729.	17621.	1806.	4819.	8983

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	0.	765.	2652.	1916.	9298.	8917.	0.	3732.	9622
1970	0.	0.	1073.	0.	542.	7201.	769.	1639.	797
1969	226.	0.	0.	688.	1555.	4972.	1376.	2230.	10583
1968	0.	0.	0.	648.	0.	0.	651.	0.	660
1967	704.	0.	306.	713.	0.	0.	0.	1526.	1955
TOTAL	6451398.	443675.	188239.	192127.	62950.	269638.	13187.	26922.	55848

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS				
		1987	1986	1985	1984	1983
2011	629828.	0.	0.	0.	0.	0.
2010	274685.	0.	0.	0.	0.	0.
2009	619053.	0.	0.	0.	0.	0.
2008	32553.	0.	0.	0.	0.	0.
2007	531805.	0.	0.	0.	0.	0.
2006	160087.	0.	0.	0.	0.	0.
2005	176000.	0.	0.	0.	0.	0.
2004	14713.	0.	0.	0.	0.	0.
2003	395452.	0.	0.	0.	0.	0.
2002	1012696.	0.	0.	0.	0.	0.
2001	224381.	0.	0.	0.	0.	0.
2000	5948.	0.	0.	0.	0.	0.
1999	195111.	0.	0.	0.	0.	0.
1998	1687160.	0.	0.	0.	0.	0.
1997	157861.	0.	0.	0.	0.	0.
1996	78258.	0.	0.	0.	0.	0.
1995	4746.	0.	0.	0.	0.	0.
1994	66905.	0.	0.	0.	0.	0.
1993	32534.	0.	0.	0.	0.	0.
1992	12035.	0.	0.	0.	0.	0.
1991	9360.	0.	0.	0.	0.	0.
1990	19397.	0.	0.	0.	0.	0.
1989	3702.	0.	0.	0.	0.	0.
1988	8400.	0.	0.	0.	0.	0.
1987	21892.	720.	0.	0.	0.	0.
1986	16356.	0.	0.	0.	0.	0.
1985	14482.	0.	0.	0.	0.	0.
1984	5430.	0.	0.	0.	0.	0.
1983	3859.	0.	0.	0.	0.	0.
1982	25878.	0.	0.	4352.	0.	651.
1981	9901.	0.	0.	444.	0.	513.
1980	0.	0.	0.	0.	0.	246.
1979	0.	1278.	2861.	1072.	0.	0.
1978	0.	0.	0.	2021.	0.	0.
1977	0.	0.	2319.	0.	388.	758.
1976	0.	0.	1696.	1200.	0.	0.
1975	0.	1190.	1928.	0.	387.	0.
1974	0.	166.	3862.	335.	0.	859.
1973	0.	1902.	4428.	4512.	3057.	0.
1972	0.	3978.	1024.	0.	725.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986	1985	1984	1983
1971	0.	600.	453.	1387.	727.	0.
1970	0.	776.	8945.	0.	0.	0.
1969	226.	0.	895.	3475.	0.	0.
1968	0.	2905.	223.	648.	0.	0.
1967	704.	651.	652.	0.	0.	1016.
TOTAL	6451398.	14166.	29286.	19446.	5284.	4043.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	10626402.	3563.	0.00033530	0.99966470	1.00000000
0.5	10197583.	11741.	0.00115135	0.99884865	0.99966470
1.5	9938592.	38985.	0.00392259	0.99607741	0.99851374
2.5	9294567.	165579.	0.01781460	0.98218540	0.99459698
3.5	9135720.	154386.	0.01689916	0.98310084	0.97687863
4.5	8478230.	1078462.	0.12720367	0.87279633	0.96037020
5.5	7271189.	634684.	0.08728751	0.91271249	0.83820759
6.5	6477726.	195242.	0.03014052	0.96985948	0.76504253
7.5	6298183.	190331.	0.03021999	0.96978001	0.74198375
8.5	5759488.	542498.	0.09419205	0.90580795	0.71956102
9.5	4272445.	406634.	0.09517595	0.90482405	0.65178409
10.5	3684809.	192709.	0.05229823	0.94770177	0.58974992
11.5	3526221.	115131.	0.03264997	0.96735003	0.55890704
12.5	3237721.	136649.	0.04220530	0.95779470	0.54065874
13.5	1439912.	140203.	0.09736914	0.90263086	0.51784008
14.5	1147583.	91120.	0.07940166	0.92059834	0.46741843
15.5	985728.	209518.	0.21255154	0.78744846	0.43030463
16.5	771464.	110037.	0.14263400	0.85736600	0.33884272
17.5	594522.	194092.	0.32646731	0.67353269	0.29051223
18.5	367896.	80234.	0.21808881	0.78191119	0.19566948
19.5	275627.	27698.	0.10049088	0.89950912	0.15299616
20.5	238569.	34730.	0.14557633	0.85442367	0.13762144
21.5	184442.	18697.	0.10137062	0.89862938	0.11758701
22.5	162043.	20417.	0.12599742	0.87400258	0.10566715
23.5	133226.	24401.	0.18315494	0.81684506	0.09235336
24.5	86933.	3426.	0.03940966	0.96059034	0.07543838
25.5	67151.	2132.	0.03174934	0.96825066	0.07246538
26.5	50537.	2468.	0.04883551	0.95116449	0.07016465
27.5	42639.	2071.	0.04857056	0.95142944	0.06673813
28.5	36709.	0.	0.00000000	1.00000000	0.06349662
29.5	10831.	0.	0.00000000	1.00000000	0.06349662
30.5	931.	0.	0.00000000	1.00000000	0.06349662
31.5	931.	0.	0.00000000	1.00000000	0.06349662
32.5	931.	0.	0.00000000	1.00000000	0.06349662
33.5	931.	0.	0.00000000	1.00000000	0.06349662
34.5	931.	0.	0.00000000	1.00000000	0.06349662
35.5	931.	0.	0.00000000	1.00000000	0.06349662
36.5	931.	0.	0.00000000	1.00000000	0.06349662
37.5	931.	0.	0.00000000	1.00000000	0.06349662
38.5	931.	0.	0.00000000	1.00000000	0.06349662

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39700 Communications Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1983 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	931.	0.	0.00000000	1.00000000	0.06349662
40.5	931.	0.	0.00000000	1.00000000	0.06349662
41.5	930.	0.	0.00000000	1.00000000	0.06349662
42.5	705.	0.	0.00000000	1.00000000	0.06349662
43.5	704.	0.	0.00000000	1.00000000	0.06349662
TOTAL		4827838.			14.48348407

PGS - 2011 CASE

P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39700 Communications Equipment

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 13.872320 FIT INDEX 0.006492 VARIANCE 0.308712

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
0.0	10626402.	3563.	63614.	0.00033530	0.00598640	1.00000000	1.00000000	0.00	0.00000000
0.5	10197583.	11741.	155605.	0.00115135	0.01525903	0.99966470	0.99401360	3.60	0.03012906
1.5	9938592.	38985.	216974.	0.00392259	0.02183149	0.99851374	0.97884592	10.81	0.08774495
2.5	9294567.	165579.	264002.	0.01781460	0.02840395	0.99459698	0.95747626	18.02	0.14027496
3.5	9135720.	154386.	319535.	0.01689916	0.03497641	0.97687863	0.93028015	25.23	0.18828119
4.5	8478230.	1078462.	352261.	0.12720367	0.04154888	0.96037020	0.89774229	32.44	0.23225347
5.5	7271189.	634684.	349899.	0.08728751	0.04812134	0.83820759	0.86044211	39.65	0.27262009
6.5	6477726.	195242.	354291.	0.03014052	0.05469380	0.76504253	0.81903648	46.86	0.30975618
7.5	6298183.	190331.	385866.	0.03021999	0.06126626	0.74198375	0.77424026	54.06	0.34399118
8.5	5759488.	542498.	390716.	0.09419205	0.06783873	0.71956102	0.72680546	61.27	0.37561525
9.5	4272445.	406634.	317918.	0.09517595	0.07441119	0.65178409	0.67749990	68.48	0.40488425
10.5	3684809.	192709.	298409.	0.05229823	0.08098365	0.58974992	0.62708633	75.69	0.43202449
11.5	3526221.	115131.	308742.	0.03264997	0.08755611	0.55890704	0.57630259	82.90	0.45723660
12.5	3237721.	136649.	304762.	0.04220530	0.09412858	0.54065874	0.52584377	90.11	0.48069880
13.5	1439912.	140203.	145001.	0.09736914	0.10070104	0.51784008	0.47634685	97.32	0.50256968
14.5	1147583.	91120.	123105.	0.07940166	0.10727350	0.46741843	0.42837823	104.52	0.52299076
15.5	985728.	209518.	112221.	0.21255154	0.11384596	0.43030463	0.38242459	111.73	0.54208854
16.5	771464.	110037.	92898.	0.14263400	0.12041843	0.33884272	0.33888710	118.94	0.55997624
17.5	594522.	194092.	75499.	0.32646731	0.12699089	0.29051223	0.29807885	126.15	0.57675559
18.5	367896.	80234.	49137.	0.21808881	0.13356335	0.19566948	0.26022555	133.36	0.59251794
19.5	275627.	27698.	38625.	0.10049088	0.14013581	0.15299616	0.22546895	140.57	0.60734567
20.5	238569.	34730.	35000.	0.14557633	0.14670828	0.13762144	0.19387268	147.78	0.62131317
21.5	184442.	18697.	28271.	0.10137062	0.15328074	0.11758701	0.16542995	154.98	0.63448764
22.5	162043.	20417.	25903.	0.12599742	0.15985320	0.10566715	0.14007273	162.19	0.64693012
23.5	133226.	24401.	22172.	0.18315494	0.16642566	0.09235336	0.11768165	169.40	0.65869596
24.5	86933.	3426.	15039.	0.03940966	0.17299812	0.07543838	0.09809641	176.61	0.66983565
25.5	67151.	2132.	12058.	0.03174934	0.17957059	0.07246538	0.08112591	183.82	0.68039523
26.5	50537.	2468.	9407.	0.04883551	0.18614305	0.07016465	0.06655808	191.03	0.69041695
27.5	42639.	2071.	8217.	0.04857056	0.19271551	0.06673813	0.05416876	198.24	0.69993963
28.5	36709.	0.	7316.	0.00000000	0.19928797	0.06349662	0.04372960	205.45	0.70899919
29.5	10831.	0.	2230.	0.00000000	0.20586044	0.06349662	0.03501482	212.65	0.71762912
30.5	931.	0.	198.	0.00000000	0.21243290	0.06349662	0.02780665	219.86	0.72586090
31.5	931.	0.	204.	0.00000000	0.21900536	0.06349662	0.02189960	227.07	0.73372448

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39700 Communications Equipment

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 13.872320 FIT INDEX 0.006492 VARIANCE 0.308712

FITTED RANGE AGE 0.5 TO 43.5

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
32.5	931.	0.	210.	0.00000000	0.22557782	0.06349662	0.01710347	234.28	0.74124900
33.5	931.	0.	216.	0.00000000	0.23215029	0.06349662	0.01324531	241.49	0.74846341
34.5	931.	0.	222.	0.00000000	0.23872275	0.06349662	0.01017041	248.70	0.75539745
35.5	931.	0.	228.	0.00000000	0.24529521	0.06349662	0.00774250	255.91	0.76208294
36.5	931.	0.	234.	0.00000000	0.25186767	0.06349662	0.00584330	263.11	0.76855553
37.5	931.	0.	241.	0.00000000	0.25844014	0.06349662	0.00437156	270.32	0.77485726
38.5	931.	0.	247.	0.00000000	0.26501260	0.06349662	0.00324178	277.53	0.78104031
39.5	931.	0.	253.	0.00000000	0.27158506	0.06349662	0.00238266	284.74	0.78717248
40.5	931.	0.	259.	0.00000000	0.27815752	0.06349662	0.00173557	291.95	0.79334544
41.5	930.	0.	265.	0.00000000	0.28472999	0.06349662	0.00125281	299.16	0.79968731
42.5	705.	0.	205.	0.00000000	0.29130245	0.06349662	0.00089610	306.37	0.80638188
43.5	704.	0.	210.	0.00000000	0.29787491	0.06349662	0.00063506	313.57	0.81369831
TOTAL (EXCEPT AGE 0)	4824275.	4824275.							

PGS - 2011 CASE P

MORTALITY STUDY BY LEAST SQUARE FITTING OF WEIGHTED RETIREMENT RATIOS

ACCOUNT NO. 39700 Communications Equipment

EXPERIENCE BAND 1983 TO 2011 DEGREE 1 AVG LIFE 13.872320 FIT INDEX 0.006492 VARIANCE 0.308712

AGE AT BEGINNING OF INTERVAL	EXPOSURES ($)	RETIREMENTS ACTUAL ($)	RETIREMENTS INDICATED ($)	RETIREMENT RATIOS ACTUAL	RETIREMENT RATIOS SMOOTHED	FITTED RANGE AGE 0.5 TO 43.5 LIFE TABLE OBSERVED	LIFE TABLE SMOOTHED	AGE/LIFE PER CENT	DEPRECIATION RATIOS
44.5					0.30444737		0.00044589	320.78	0.82203740
45.5					0.31101984		0.00031014	327.99	0.83200437
46.5					0.31759230		0.00021368	335.20	0.84452422
47.5					0.32416476		0.00014582	342.41	0.86102623
48.5					0.33073722		0.00009855	349.62	0.88374140
49.5					0.33730969		0.00006595	356.83	0.91618633
50.5							0.00004371	364.03	0.96395701

EQUIVALENT H CURVE IS 1.38

EQUIVALENT L CURVE IS 0.50

EQUIVALENT R CURVE IS 0.50

EQUIVALENT S CURVE IS

Peoples Gas System
Net Salvage Analysis
Account - 397.00 - Communication Equipment
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2008	244,029	0	0	0	0	0	0
2007	97,245	0	0	0	0	0	0
2006	193,901	0	0	0	0	0	0
2005	31,962	0	0	0	0	0	0
2004	178,959	(390)	(0)	30,524	17	30,134	17
2003	701,618	0	0	0	0	0	0
2002	28,354	0	0	0	0	0	0
2001	336,003	0	0	0	0	0	0
2000	795,375	0	0	0	0	0	0
1999	288,658	0	0	0	0	0	0
1998	305,900	(827)	(0)	0	0	(827)	(0)
1997	265,344	0	0	2,900	1	2,900	1
1996	35,683	0	0	0	0	0	0
1995	443,675	1,659	0	1,000	0	2,659	1
1994	188,240	0	0	0	0	0	0
1993	192,126	0	0	1,331	1	1,331	1
1992	62,948	(639)	(1)	0	0	(639)	(1)
1991	274,248	0	0	0	0	0	0
1990	13,187	0	0	0	0	0	0
1989	30,118	0	0	200	1	200	1
1988	58,759	0	0	0	0	0	0
1987	15,039	(396)	(3)	0	0	(396)	(3)
1986	35,504	(369)	(1)	0	0	(369)	(1)
1985	19,866	(620)	(3)	1	0	(619)	(3)
1984	10,011	(2,214)	(22)	0	0	(2,214)	(22)
1983	5,088	(17)	(0)	0	0	(17)	(0)
1982	0	0	0	0	0	0	0
	4,851,839	**(3,814)**	**(0)**	**35,956**	**1**	**32,143**	**1**

Peoples Gas System
Net Salvage Analysis
Account - 397.00 - Communication Equipment
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	535,175	0	0	0	0	0	0
2009	567,138	0	0	0	0	0	0
2008	746,097	(390)	(0)	30,524	4	30,134	4
2007	1,203,685	(390)	(0)	30,524	3	30,134	3
2006	1,134,795	(390)	(0)	30,524	3	30,134	3
2005	1,276,896	(390)	(0)	30,524	2	30,134	2
2004	2,040,308	(390)	(0)	30,524	1	30,134	1
2003	2,150,008	0	0	0	0	0	0
2002	1,754,289	(827)	(0)	0	0	(827)	(0)
2001	1,991,279	(827)	(0)	2,900	0	2,073	0
2000	1,690,959	(827)	(0)	2,900	0	2,073	0
1999	1,339,260	831	0	3,900	0	4,731	0
1998	1,238,842	831	0	3,900	0	4,731	0
1997	1,125,067	1,659	0	5,231	0	6,890	1
1996	922,671	1,020	0	2,331	0	3,351	0
1995	1,161,236	1,020	0	2,331	0	3,351	0
1994	730,748	(639)	(0)	1,331	0	692	0
1993	572,626	(639)	(0)	1,531	0	892	0
1992	439,260	(639)	(0)	200	0	(439)	(0)
1991	391,351	(396)	(0)	200	0	(196)	(0)
1990	152,608	(765)	(1)	200	0	(565)	(0)
1989	159,286	(1,385)	(1)	201	0	(1,184)	(1)
1988	139,179	(3,599)	(3)	1	0	(3,598)	(3)
1987	85,508	(3,616)	(4)	1	0	(3,615)	(4)
1986	70,469	(3,219)	(5)	1	0	(3,218)	(5)

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800. Miscellaneous Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 17.0 YRS CURVE: IOWA R2 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
2011	0.50	0.	0.026566	0.	0.
2010	1.50	7923.	0.079013	626.	7297.
2009	2.50	0.	0.130512	0.	0.
2008	3.50	2887.	0.180984	523.	2364.
2007	4.50	6291.	0.230353	1449.	4842.
2006	5.50	46223.	0.278555	12876.	33347.
2005	6.50	0.	0.325511	0.	0.
2004	7.50	4615.	0.371151	1713.	2902.
2003	8.50	73662.	0.415398	30599.	43063.
2002	9.50	6308.	0.458161	2890.	3418.
2001	10.50	7542.	0.499357	3766.	3776.
2000	11.50	4854.	0.538902	2616.	2238.
1999	12.50	3167.	0.576701	1826.	1341.
1998	13.50	23063.	0.612654	14130.	8933.
1997	14.50	127996.	0.646685	82773.	45223.
1996	15.50	0.	0.678711	0.	0.
1995	16.50	0.	0.708689	0.	0.
1994	17.50	0.	0.736584	0.	0.
1993	18.50	73872.	0.762430	56322.	17550.
1992	19.50	41463.	0.786291	32602.	8861.
1991	20.50	18461.	0.808305	14922.	3539.
1990	21.50	0.	0.828683	0.	0.
1989	22.50	0.	0.847698	0.	0.
1988	23.50	0.	0.865696	0.	0.
1987	24.50	2011.	0.883044	1776.	235.
1986	25.50	0.	0.900071	0.	0.
1985	26.50	0.	0.917042	0.	0.
1984	27.50	0.	0.934012	0.	0.
1983	28.50	0.	0.951334	0.	0.
1982	29.50	0.	0.971956	0.	0.
1981	30.50	0.	1.000000	0.	0.
1980	31.50	0.	1.000000	0.	0.
1979	32.50	0.	1.000000	0.	0.
1978	33.50	0.	1.000000	0.	0.
1977	34.50	0.	1.000000	0.	0.
1976	35.50	0.	1.000000	0.	0.
1975	36.50	0.	1.000000	0.	0.
1974	37.50	0.	1.000000	0.	0.
1973	38.50	0.	1.000000	0.	0.
1972	39.50	0.	1.000000	0.	0.
1971	40.50	0.	1.000000	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800. Miscellaneous Equipment

DETERMINATION OF ORIGINAL COST VALUES AT 12/31/11

DEPRECIATION: ALG LIFE: 17.0 YRS CURVE: IOWA R2 O.C. SALVAGE %: 0.

I	II	III	IV	V	VI
YEAR	AGE AT 12/31/11	ORIGINAL COST AT 12/31/11	DEPRECIATION RESERVE RATIO	CALCULATED DEPRECIATION RESERVE	ORIGINAL COST LESS CALCULATED DEPRECIATION
1970	41.50	558.	1.000000	558.	0.
1969	42.50	0.	1.000000	0.	0.
1968	43.50	1016.	1.000000	1016.	0.
SUBTOTAL :			0.581933	262983.	188929.
NET SALVAGE: 0.0%				0.	0.
TOTAL :		451912.	0.581933	262983.	188929.

WEIGHTED AGE: 13.4 YEARS
REMAINING LIFE: 7.1 YEARS

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800. Miscellaneous Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 17.0 YRS CURVE: IOWA R2 O.C. SALVAGE %: 0.

I	II	III	IV	V
YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
2011	0.50 - 1.50	0.	0.058824	0.
2010	1.50 - 2.50	7923.	0.058824	466.
2009	2.50 - 3.50	0.	0.058824	0.
2008	3.50 - 4.50	2887.	0.058824	170.
2007	4.50 - 5.50	6291.	0.058824	370.
2006	5.50 - 6.50	46223.	0.058824	2719.
2005	6.50 - 7.50	0.	0.058824	0.
2004	7.50 - 8.50	4615.	0.058824	271.
2003	8.50 - 9.50	73662.	0.058824	4333.
2002	9.50 - 10.50	6308.	0.058824	371.
2001	10.50 - 11.50	7542.	0.058824	444.
2000	11.50 - 12.50	4854.	0.058824	286.
1999	12.50 - 13.50	3167.	0.058824	186.
1998	13.50 - 14.50	23063.	0.058824	1357.
1997	14.50 - 15.50	127996.	0.058824	7529.
1996	15.50 - 16.50	0.	0.058824	0.
1995	16.50 - 17.50	0.	0.058824	0.
1994	17.50 - 18.50	0.	0.058824	0.
1993	18.50 - 19.50	73872.	0.058824	4345.
1992	19.50 - 20.50	41463.	0.058824	2439.
1991	20.50 - 21.50	18461.	0.058824	1086.
1990	21.50 - 22.50	0.	0.058824	0.
1989	22.50 - 23.50	0.	0.058824	0.
1988	23.50 - 24.50	0.	0.058824	0.
1987	24.50 - 25.50	2011.	0.058824	118.
1986	25.50 - 26.50	0.	0.058824	0.
1985	26.50 - 27.50	0.	0.058824	0.
1984	27.50 - 28.50	0.	0.058824	0.
1983	28.50 - 29.50	0.	0.058824	0.
1982	29.50 - 30.50	0.	0.058824	0.
1981	30.50 - 31.50	0.	0.058824	0.
1980	31.50 - 32.50	0.	0.058824	0.
1979	32.50 - 33.50	0.	0.058824	0.
1978	33.50 - 34.50	0.	0.058824	0.
1977	34.50 - 35.50	0.	0.058824	0.
1976	35.50 - 36.50	0.	0.058824	0.
1975	36.50 - 37.50	0.	0.058824	0.
1974	37.50 - 38.50	0.	0.058824	0.
1973	38.50 - 39.50	0.	0.058824	0.
1972	39.50 - 40.50	0.	0.058824	0.
1971	40.50 - 41.50	0.	0.058824	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800. Miscellaneous Equipment

DETERMINATION OF DEPRECIATION RATE FOR 2012 BASED ON PLANT AT 12/31/11

DEPRECIATION: ALG LIFE: 17.0 YRS CURVE: IOWA R2 O.C. SALVAGE %: 0.

	I	II	III	IV	V
	YEAR	AGE INTERVAL	ORIGINAL COST 12/31/11	ANNUAL DEPRECIATION RATE	ORIGINAL COST ANNUAL DEPRECIATION
	1970	41.50 - 42.50	558.	0.058824	33.
	1969	42.50 - 43.50	0.	0.058824	0.
	1968	43.50 - 44.50	1016.	0.058824	60.
SUBTOTAL :			451912.	0.058824	26583.
NET SALVAGE:	0.0 %				0.
TOTAL :			451912.	0.058824	26583.

MONTHLY RATE: 0.004902

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800. Miscellaneous Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 17.0 YRS CURVE: IOWA R2

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
2011	0.50	0.	16.5	0.
2010	1.50	7923.	15.7	124047.
2009	2.50	0.	14.8	0.
2008	3.50	2887.	13.9	40196.
2007	4.50	6291.	13.1	82311.
2006	5.50	46223.	12.3	566898.
2005	6.50	0.	11.5	0.
2004	7.50	4615.	10.7	49336.
2003	8.50	73662.	9.9	732062.
2002	9.50	6308.	9.2	58104.
2001	10.50	7542.	8.5	64189.
2000	11.50	4854.	7.8	38048.
1999	12.50	3167.	7.2	22790.
1998	13.50	23063.	6.6	151865.
1997	14.50	127996.	6.0	768781.
1996	15.50	0.	5.5	0.
1995	16.50	0.	5.0	0.
1994	17.50	0.	4.5	0.
1993	18.50	73872.	4.0	298343.
1992	19.50	41463.	3.6	150635.
1991	20.50	18461.	3.3	60160.
1990	21.50	0.	2.9	0.
1989	22.50	0.	2.6	0.
1988	23.50	0.	2.3	0.
1987	24.50	2011.	2.0	3998.
1986	25.50	0.	1.7	0.
1985	26.50	0.	1.4	0.
1984	27.50	0.	1.1	0.
1983	28.50	0.	0.8	0.
1982	29.50	0.	0.5	0.
1981	30.50	0.	0.0	0.
1980	31.50	0.	0.0	0.
1979	32.50	0.	0.0	0.
1978	33.50	0.	0.0	0.
1977	34.50	0.	0.0	0.
1976	35.50	0.	0.0	0.
1975	36.50	0.	0.0	0.
1974	37.50	0.	0.0	0.
1973	38.50	0.	0.0	0.
1972	39.50	0.	0.0	0.
1971	40.50	0.	0.0	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800. Miscellaneous Equipment

DETERMINATION OF AVERAGE REMAINING LIFE AT 12/31/11

LIFE: 17.0 YRS CURVE: IOWA R2

I	II	III	IV	V
YEAR INSTALLED	AGE AT 12/31/11	ORIGINAL COST	AVERAGE REMAINING LIFE	WEIGHTED DOLLAR YEARS
1970	41.50	558.	0.0	0.
1969	42.50	0.	0.0	0.
1968	43.50	1016.	0.0	0.
TOTAL:		451912.	7.1	3211764.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800. Miscellaneous Equipment

DEVELOPMENT OF AVERAGE LIFE GROUP ACCRUAL RATES AND RESERVE RATIOS

DEPRECIATION: ALG LIFE: 17.0 YEARS CURVE: IOWA R2

I	II	III	IV	V	VI	VII	VIII	IX
AGE	AGE/LIFE RATIO	PERCENT SURVIVING	RETIREMENT DIFFERENCE	AVERAGE PERCENT SURVIVING	ACCRUAL RATE ON SURVIVORS	ANNUAL ACCRUALS	DEPREC. RESERVE BALANCE	DEPREC. RESERVE RATIO
0.00	0.0	100.00000					0.00000	
0.50	0.0294	99.71194	0.28806	49.92799	0.058824	2.93697	2.64891	0.026566
1.50	0.0882	99.04288	0.66906	99.37741	0.058824	5.84580	7.82565	0.079013
2.50	0.1471	98.23582	0.80706	98.63935	0.058824	5.80238	12.82097	0.130512
3.50	0.2059	97.26870	0.96712	97.75226	0.058824	5.75020	17.60405	0.180984
4.50	0.2647	96.11777	1.15094	96.69323	0.058824	5.68790	22.14102	0.230353
5.50	0.3235	94.75806	1.35971	95.43791	0.058824	5.61406	26.39537	0.278555
6.50	0.3824	93.16035	1.59771	93.95920	0.058824	5.52707	30.32474	0.325511
7.50	0.4412	91.29441	1.86594	92.22738	0.058824	5.42520	33.88400	0.371151
8.50	0.5000	89.12700	2.16741	90.21070	0.058824	5.30657	37.02316	0.415398
9.50	0.5588	86.62117	2.50582	87.87409	0.058824	5.16912	39.68646	0.458161
10.50	0.6176	83.74035	2.88082	85.18076	0.058824	5.01069	41.81632	0.499357
11.50	0.6765	80.44900	3.29135	82.09467	0.058824	4.82915	43.35412	0.538902
12.50	0.7353	76.71265	3.73635	78.58082	0.058824	4.62245	44.24022	0.576701
13.50	0.7941	72.50288	4.20976	74.60776	0.058824	4.38874	44.41920	0.612654
14.50	0.8529	67.80606	4.69682	70.15447	0.058824	4.12678	43.84916	0.646685
15.50	0.9118	62.62476	5.18130	65.21541	0.058824	3.83624	42.50411	0.678711
16.50	0.9706	56.99230	5.63247	59.80853	0.058824	3.51819	40.38983	0.708689
17.50	1.0294	50.97259	6.01971	53.98244	0.058824	3.17547	37.54559	0.736584
18.50	1.0882	44.67630	6.29629	47.82444	0.058824	2.81323	34.06254	0.762430
19.50	1.1471	38.25147	6.42483	41.46388	0.058824	2.43908	30.07679	0.786291
20.50	1.2059	31.88335	6.36812	35.06741	0.058824	2.06281	25.77149	0.808305
21.50	1.2647	25.77653	6.10683	28.82994	0.058824	1.69590	21.36056	0.828683
22.50	1.3235	20.12953	5.64700	22.95303	0.058824	1.35019	17.06376	0.847698
23.50	1.3824	15.10982	5.01971	17.61968	0.058824	1.03646	13.08051	0.865696
24.50	1.4412	10.82817	4.28165	12.96900	0.058824	0.76289	9.56175	0.883044
25.50	1.5000	7.32900	3.49918	9.07859	0.058824	0.53404	6.59662	0.900071
26.50	1.5588	4.59924	2.72976	5.96412	0.058824	0.35083	4.21769	0.917042
27.50	1.6176	2.58147	2.01776	3.59035	0.058824	0.21120	2.41113	0.934012
28.50	1.6765	1.20929	1.37218	1.89538	0.058824	0.11149	1.15044	0.951334
29.50	1.7353	0.40524	0.80406	0.80726	0.058824	0.04749	0.39387	0.971956
30.50	1.7941	0.06188	0.34335	0.23356	0.058824	0.01374	0.06426	1.000000
31.50	1.8529	0.00071	0.06118	0.03129	0.058824	0.00184	0.00492	1.000000
32.50	1.9118	0.00000	0.00071	0.00035	0.058824	0.00002	0.00000	1.000000
		1699.98069	100.00000					

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS							
		2011	2010	2009	2008	2007	2006	2005	2004
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	7923.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	2887.	0.	0.	0.	0.	0.	0.	0.	0
2007	6291.	0.	0.	0.	0.	0.	0.	0.	0
2006	46223.	0.	0.	0.	0.	0.	0.	0.	0
2005	0.	0.	0.	0.	0.	0.	0.	0.	0
2004	4615.	0.	0.	0.	0.	0.	0.	0.	0
2003	73662.	0.	0.	0.	0.	0.	0.	0.	0
2002	6308.	0.	0.	0.	0.	0.	0.	0.	0
2001	7542.	0.	0.	0.	0.	0.	2934.	0.	0
2000	4854.	0.	0.	0.	0.	0.	0.	0.	0
1999	3167.	0.	0.	0.	0.	0.	0.	0.	0
1998	23063.	0.	0.	0.	0.	0.	0.	0.	0
1997	127996.	0.	0.	0.	0.	0.	0.	0.	0
1996	0.	0.	0.	0.	0.	0.	0.	0.	0
1995	0.	0.	0.	0.	0.	0.	0.	0.	0
1994	0.	0.	0.	0.	0.	0.	0.	0.	0
1993	73872.	0.	0.	0.	0.	0.	0.	0.	0
1992	41463.	0.	0.	0.	0.	0.	0.	0.	0
1991	18461.	0.	0.	0.	0.	0.	0.	0.	0
1990	0.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	0.	0.	0.	0.	0.	0.	0.	0.	0
1987	2011.	0.	0.	0.	0.	0.	0.	0.	0
1986	0.	0.	0.	0.	0.	0.	0.	0.	0
1985	0.	0.	0.	0.	0.	0.	0.	0.	0
1984	0.	0.	0.	0.	0.	0.	0.	0.	0
1983	0.	0.	0.	0.	0.	0.	0.	0.	0
1982	0.	0.	0.	0.	0.	0.	0.	0.	0
1981	0.	0.	0.	0.	0.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	0.	0.	0.	0.	0.	0.	0.	0.	0
1978	0.	0.	0.	0.	0.	0.	0.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	0
1976	0.	0.	0.	0.	0.	0.	0.	0.	0
1975	0.	0.	0.	0.	0.	0.	0.	0.	0
1974	0.	0.	0.	0.	0.	0.	0.	0.	16344
1973	0.	0.	0.	0.	0.	0.	0.	0.	0
1972	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2011	2010	2009	2008	2007	2006	2005	2004
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	558.	0.	0.	0.	0.	0.	0.	0.	0
1969	0.	0.	0.	0.	0.	0.	0.	0.	0
1968	1016.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	451912.	0.	0.	0.	0.	0.	2934.	0.	16344

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	7923.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	2887.	0.	0.	0.	0.	0.	0.	0.	0
2007	6291.	0.	0.	0.	0.	0.	0.	0.	0
2006	46223.	0.	0.	0.	0.	0.	0.	0.	0
2005	0.	0.	0.	0.	0.	0.	0.	0.	0
2004	4615.	0.	0.	0.	0.	0.	0.	0.	0
2003	73662.	0.	0.	0.	0.	0.	0.	0.	0
2002	6308.	0.	0.	0.	0.	0.	0.	0.	0
2001	7542.	0.	0.	0.	0.	0.	0.	0.	0
2000	4854.	0.	0.	0.	0.	0.	0.	0.	0
1999	3167.	0.	0.	0.	0.	0.	0.	0.	0
1998	23063.	0.	0.	0.	0.	0.	0.	0.	0
1997	127996.	0.	0.	0.	0.	0.	0.	0.	0
1996	0.	0.	0.	0.	0.	0.	0.	0.	0
1995	0.	0.	0.	0.	0.	0.	0.	0.	0
1994	0.	0.	0.	0.	24984.	0.	0.	0.	0
1993	73872.	0.	0.	0.	25937.	6953.	0.	0.	0
1992	41463.	0.	0.	0.	552.	0.	0.	0.	0
1991	18461.	0.	0.	0.	0.	0.	0.	0.	0
1990	0.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	0.	0.	0.	0.	0.	0.	0.	0.	0
1987	2011.	0.	0.	0.	0.	0.	0.	0.	0
1986	0.	0.	0.	0.	0.	0.	0.	0.	0
1985	0.	0.	0.	0.	0.	0.	0.	0.	0
1984	0.	0.	0.	0.	539.	0.	0.	0.	0
1983	0.	0.	0.	0.	0.	0.	0.	0.	0
1982	0.	0.	0.	0.	0.	0.	0.	0.	0
1981	0.	0.	0.	0.	0.	0.	0.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	0.	0.	0.	0.	0.	0.	0.	0.	0
1978	0.	0.	0.	0.	0.	0.	0.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	0
1976	0.	0.	0.	0.	0.	0.	0.	0.	0
1975	0.	192.	0.	0.	0.	0.	0.	0.	0
1974	0.	0.	0.	0.	0.	0.	2471.	0.	0
1973	0.	0.	0.	0.	0.	0.	0.	0.	0
1972	0.	0.	0.	0.	0.	0.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 2003	2002	2001	2000	1999	1998	1997	1996
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	558.	0.	0.	0.	116.	0.	0.	0.	0
1969	0.	0.	0.	0.	297.	0.	0.	0.	0
1968	1016.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	451912.	192.	0.	0.	52425.	6953.	2471.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
2011	0.	0.	0.	0.	0.	0.	0.	0.	0
2010	7923.	0.	0.	0.	0.	0.	0.	0.	0
2009	0.	0.	0.	0.	0.	0.	0.	0.	0
2008	2887.	0.	0.	0.	0.	0.	0.	0.	0
2007	6291.	0.	0.	0.	0.	0.	0.	0.	0
2006	46223.	0.	0.	0.	0.	0.	0.	0.	0
2005	0.	0.	0.	0.	0.	0.	0.	0.	0
2004	4615.	0.	0.	0.	0.	0.	0.	0.	0
2003	73662.	0.	0.	0.	0.	0.	0.	0.	0
2002	6308.	0.	0.	0.	0.	0.	0.	0.	0
2001	7542.	0.	0.	0.	0.	0.	0.	0.	0
2000	4854.	0.	0.	0.	0.	0.	0.	0.	0
1999	3167.	0.	0.	0.	0.	0.	0.	0.	0
1998	23063.	0.	0.	0.	0.	0.	0.	0.	0
1997	127996.	0.	0.	0.	0.	0.	0.	0.	0
1996	0.	0.	0.	0.	0.	0.	0.	0.	0
1995	0.	0.	0.	0.	0.	0.	0.	0.	0
1994	0.	0.	0.	0.	0.	0.	0.	0.	0
1993	73872.	0.	0.	0.	0.	0.	0.	0.	0
1992	41463.	0.	0.	0.	0.	0.	0.	0.	0
1991	18461.	0.	0.	0.	0.	0.	0.	0.	0
1990	0.	0.	0.	0.	0.	0.	0.	0.	0
1989	0.	0.	0.	0.	0.	0.	0.	0.	0
1988	0.	0.	108.	0.	0.	0.	0.	0.	0
1987	2011.	0.	1910.	0.	0.	0.	0.	0.	0
1986	0.	1671.	2147.	0.	173.	0.	0.	0.	0
1985	0.	0.	0.	0.	0.	0.	0.	0.	0
1984	0.	0.	0.	0.	397.	0.	0.	0.	0
1983	0.	0.	0.	0.	0.	0.	0.	0.	0
1982	0.	0.	0.	0.	0.	0.	154.	0.	0
1981	0.	0.	0.	0.	0.	0.	149.	0.	0
1980	0.	0.	0.	0.	0.	0.	0.	0.	0
1979	0.	0.	0.	0.	0.	0.	302.	0.	0
1978	0.	0.	0.	0.	280.	0.	0.	0.	0
1977	0.	0.	0.	0.	0.	0.	0.	0.	331
1976	0.	0.	150.	0.	0.	0.	0.	0.	0
1975	0.	0.	0.	0.	506.	185.	0.	0.	0
1974	0.	0.	0.	0.	843.	7374.	0.	0.	0
1973	0.	0.	0.	0.	0.	2319.	0.	0.	0
1972	0.	0.	944.	0.	0.	240.	0.	0.	0

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1995	1994	1993	1992	1991	1990	1989	1988
1971	0.	0.	0.	0.	0.	0.	0.	0.	0
1970	558.	0.	0.	0.	0.	0.	446.	0.	0
1969	0.	0.	0.	0.	0.	0.	879.	0.	0
1968	1016.	0.	0.	0.	0.	0.	0.	0.	0
TOTAL	451912.	1671.	5259.	0.	2199.	10118.	1930.	0.	331

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986
2011	0.	0.	0.
2010	7923.	0.	0.
2009	0.	0.	0.
2008	2887.	0.	0.
2007	6291.	0.	0.
2006	46223.	0.	0.
2005	0.	0.	0.
2004	4615.	0.	0.
2003	73662.	0.	0.
2002	6308.	0.	0.
2001	7542.	0.	0.
2000	4854.	0.	0.
1999	3167.	0.	0.
1998	23063.	0.	0.
1997	127996.	0.	0.
1996	0.	0.	0.
1995	0.	0.	0.
1994	0.	0.	0.
1993	73872.	0.	0.
1992	41463.	0.	0.
1991	18461.	0.	0.
1990	0.	0.	0.
1989	0.	0.	0.
1988	0.	0.	0.
1987	2011.	0.	0.
1986	0.	0.	0.
1985	0.	0.	0.
1984	0.	0.	0.
1983	0.	0.	0.
1982	0.	0.	0.
1981	0.	0.	0.
1980	0.	0.	0.
1979	0.	0.	290.
1978	0.	0.	0.
1977	0.	0.	0.
1976	0.	0.	0.
1975	0.	0.	0.
1974	0.	0.	2551.
1973	0.	0.	0.
1972	0.	0.	0.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

INPUT DATA

YEAR INST	SURVIVORS	RETIREMENT YEARS 1987	1986
1971	0.	0.	114.
1970	558.	0.	0.
1969	0.	0.	0.
1968	1016.	0.	0.
TOTAL	451912.	0.	2955.

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1986 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
0.0	517708.	0.	0.00000000	1.00000000	1.00000000
0.5	517707.	0.	0.00000000	1.00000000	1.00000000
1.5	510721.	0.	0.00000000	1.00000000	1.00000000
2.5	510720.	0.	0.00000000	1.00000000	1.00000000
3.5	507987.	0.	0.00000000	1.00000000	1.00000000
4.5	501845.	2934.	0.00584643	0.99415357	1.00000000
5.5	452689.	32218.	0.07117027	0.92882973	0.99415357
6.5	421062.	28137.	0.06682389	0.93317611	0.92339939
7.5	388590.	3250.	0.00836357	0.99163643	0.86169425
8.5	312009.	1820.	0.00583317	0.99416683	0.85448741
9.5	304031.	0.	0.00000000	1.00000000	0.84950305
10.5	297372.	633.	0.00212865	0.99787135	0.84950305
11.5	321468.	2551.	0.00793547	0.99206453	0.84769475
12.5	318069.	0.	0.00000000	1.00000000	0.84096790
13.5	296190.	280.	0.00094534	0.99905466	0.84096790
14.5	168029.	114.	0.00067845	0.99932155	0.84017290
15.5	169035.	724.	0.00428314	0.99571686	0.83960288
16.5	169487.	7880.	0.04649324	0.95350676	0.83600674
17.5	162622.	3312.	0.02036625	0.97963375	0.79713808
18.5	85438.	240.	0.00280905	0.99719095	0.78090337
19.5	43735.	446.	0.01019778	0.98980222	0.77870977
20.5	24829.	879.	0.03540215	0.96459785	0.77076866
21.5	23950.	944.	0.03941545	0.96058455	0.74348179
22.5	23006.	0.	0.00000000	1.00000000	0.71417712
23.5	23005.	2471.	0.10741143	0.89258857	0.71417712
24.5	18524.	0.	0.00000000	1.00000000	0.63746633
25.5	18524.	0.	0.00000000	1.00000000	0.63746633
26.5	18524.	0.	0.00000000	1.00000000	0.63746633
27.5	18524.	192.	0.01036493	0.98963507	0.63746633
28.5	18332.	0.	0.00000000	1.00000000	0.63085904
29.5	18332.	16460.	0.89788348	0.10211652	0.63085904
30.5	1872.	297.	0.15865385	0.84134615	0.06442113
31.5	1575.	0.	0.00000000	1.00000000	0.05420047
32.5	1575.	0.	0.00000000	1.00000000	0.05420047
33.5	1575.	0.	0.00000000	1.00000000	0.05420047
34.5	1575.	0.	0.00000000	1.00000000	0.05420047
35.5	1575.	0.	0.00000000	1.00000000	0.05420047
36.5	1575.	0.	0.00000000	1.00000000	0.05420047
37.5	1575.	0.	0.00000000	1.00000000	0.05420047
38.5	1575.	0.	0.00000000	1.00000000	0.05420047

DEPRECIATION/VALUATION SYSTEM

PGS - 2011 CASE

ACCOUNT NO. 39800 Miscellaneous Equipment

DETERMINATION OF OBSERVED LIFE TABLE

EXPERIENCE BAND 1986 TO 2011

I	II	III	IV	V	VI
AGE IN YEARS	EXPOSURES ($)	ACTUAL RETIREMENTS ($)	RETIREMENT RATIOS	SURVIVORS RATIOS	OBSERVED LIFE TABLE
39.5	1575.	0.	0.00000000	1.00000000	0.05420047
40.5	1574.	0.	0.00000000	1.00000000	0.05420047
41.5	1017.	0.	0.00000000	1.00000000	0.05420047
42.5	1016.	0.	0.00000000	1.00000000	0.05420047
TOTAL		105782.			25.20391986

SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39800 Miscellaneous Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	29.40	0.009742	406.48	0.99	0.00	SC	0.50
1987	1991	19.66	0.015996	266.98	2.82	3.00	1.50	2.00
1988	1992	18.00	0.015126	302.73	2.20	2.00	0.50	1.50
1989	1993	17.72	0.013097	324.54	1.89	1.50	0.00	1.00
1990	1994	15.46	0.014614	352.44	1.55	1.00	-0.50	0.50
1991	1995	16.36	0.013682	345.44	1.61	1.00	-0.50	0.50
1992	1996	28.14	0.009006	364.19	1.42	1.00	-0.50	0.50
1993	1997	37.25	0.007121	366.44	1.42	1.00	-0.50	0.50
1994	1998	28.32	0.006361	340.76	1.75	1.50	0.00	0.50
1995	1999	32.75	0.004640	355.77	1.54	1.00	-0.50	0.50
1996	2000	16.77	0.011136	456.05	0.51	0.00	SC	0.50
1997	2001	18.38	0.010962	476.16	0.35	0.00	SC	0.50
1998	2002	20.34	0.011130	503.98	0.12	0.00	SC	0.50
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	17.06	0.015990	337.05	1.74	1.50	0.00	0.50
2001	2005	21.78	0.013650	268.63	2.78	3.00	1.50	2.00
2002	2006	22.01	0.013369	265.79	2.81	3.00	1.50	2.00
2003	2007	22.53	0.013141	264.14	2.83	3.00	1.50	2.00
2004	2008	23.25	0.012711	264.48	2.84	3.00	1.50	2.50
2005	2009	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2006	2010	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39800 Miscellaneous Equipment

FIRST DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2011	30.54	0.010385	279.97	2.61	3.00	1.00	2.00
2003	2011	31.44	0.010013	281.47	2.56	3.00	1.00	2.00
2002	2011	32.35	0.009575	285.91	2.51	2.00	1.00	2.00
2001	2011	33.17	0.009253	290.92	2.46	2.00	1.00	2.00
2000	2011	32.53	0.009875	370.42	1.38	0.50	SC	0.50
1999	2011	32.83	0.009456	382.32	1.25	0.50	SC	0.50
1998	2011	31.69	0.008893	364.48	1.42	1.00	-0.50	0.50
1997	2011	32.08	0.008707	363.17	1.43	1.00	-0.50	0.50
1996	2011	32.39	0.008553	362.74	1.45	1.00	-0.50	0.50
1995	2011	32.44	0.008396	362.22	1.45	1.00	-0.50	0.50
1994	2011	31.83	0.008297	366.04	1.43	1.00	-0.50	0.50
1993	2011	32.07	0.008233	366.44	1.42	1.00	-0.50	0.50
1992	2011	31.73	0.008183	364.00	1.43	1.00	-0.50	0.50
1991	2011	29.28	0.008131	356.90	1.54	1.00	-0.50	0.50
1990	2011	29.08	0.008089	352.53	1.56	1.00	-0.50	0.50
1989	2011	29.27	0.008067	353.62	1.55	1.00	-0.50	0.50
1988	2011	29.39	0.008042	355.51	1.55	1.00	-0.50	0.50
1987	2011	29.54	0.008021	353.79	1.54	1.00	-0.50	0.50
1986	2011	29.27	0.007985	357.00	1.54	1.00	-0.50	0.50

PGS - 2011 CASE

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39800 Miscellaneous Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	24.31	0.009851	261.18	1.78	1.50	0.00	1.00
1987	1991	19.18	0.015140	179.87	3.75	4.00	3.00	3.00
1988	1992	18.69	0.015190	216.74	2.98	3.00	1.50	2.50
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1993	1997	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1996	2000	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1997	2001	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1998	2002	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1999	2003	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2004	16.87	0.015905	275.64	1.33	0.50	SC	0.50
2001	2005	23.40	0.013229	190.16	3.58	4.00	2.00	3.00
2002	2006	22.70	0.012768	191.65	3.41	3.00	2.00	3.00
2003	2007	22.26	0.012248	186.44	3.57	4.00	2.00	3.00
2004	2008	21.70	0.011308	182.05	3.63	4.00	3.00	3.00
2005	2009	117.92	0.000965	188.69	3.69	4.00	3.00	3.00
2006	2010	97.60	0.000974	194.17	3.46	3.00	2.00	3.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

PGS - 2011 CASE

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SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39800 Miscellaneous Equipment

SECOND DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	94.72	0.000713	197.96	3.43	3.00	2.00	3.00
2005	2011	103.27	0.000662	198.02	3.51	4.00	2.00	3.00
2004	2011	25.35	0.009855	187.38	3.54	4.00	2.00	3.00
2003	2011	26.35	0.009648	187.88	3.53	4.00	2.00	3.00
2002	2011	27.13	0.009296	189.80	3.52	4.00	2.00	3.00
2001	2011	27.74	0.009024	192.84	3.52	4.00	2.00	3.00
2000	2011	24.80	0.009700	223.78	1.98	1.50	0.00	1.00
1999	2011	25.16	0.009322	224.57	1.98	1.50	0.00	1.00
1998	2011	25.37	0.008761	222.71	2.12	2.00	0.50	1.50
1997	2011	25.74	0.008590	223.36	2.17	2.00	0.50	1.50
1996	2011	26.10	0.008452	224.16	2.22	2.00	0.50	1.50
1995	2011	26.36	0.008316	221.94	2.25	2.00	0.50	1.50
1994	2011	26.29	0.008238	226.32	2.24	2.00	0.50	1.50
1993	2011	26.45	0.008179	224.93	2.26	2.00	0.50	1.50
1992	2011	26.36	0.008134	229.48	2.25	2.00	0.50	1.50
1991	2011	25.47	0.008095	233.65	2.20	2.00	0.50	1.50
1990	2011	25.35	0.008051	234.70	2.21	2.00	0.50	1.50
1989	2011	25.42	0.008027	234.06	2.21	2.00	0.50	1.50
1988	2011	25.46	0.008002	233.69	2.22	2.00	0.50	1.50
1987	2011	25.50	0.007979	233.30	2.22	2.00	0.50	1.50
1986	2011	25.39	0.007951	234.35	2.19	2.00	0.50	1.50

PGS - 2011 CASE

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SUMMARY OF ROLLING BANDS

ACCOUNT NO. 39800 Miscellaneous Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
1986	1990	17.18	0.009007	189.16	1.67	1.00	-0.50	0.50
1987	1991	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1988	1992	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1989	1993	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1990	1994	12.89	0.013849	523.46	-2.60	0.00	SC	0.50
1991	1995	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1992	1996	27.54	0.008256	299.60	-2.60	0.00	SC	0.50
1993	1997	54.58	0.006860	211.61	-1.07	0.00	SC	0.50
1994	1998	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
1995	1999	77.15	0.004640	204.14	-0.54	0.00	SC	0.50
1996	2000	14.74	0.009363	335.77	0.12	0.00	SC	0.50
1997	2001	17.60	0.010100	275.64	0.49	0.00	SC	0.50
1998	2002	20.72	0.010754	229.29	0.84	0.00	SC	0.50
1999	2003	24.59	0.009314	176.89	1.43	1.00	-0.50	0.50
2000	2004	22.81	0.015413	164.42	1.85	1.50	0.00	1.00
2001	2005	23.98	0.013398	181.43	3.82	4.00	3.00	3.00
2002	2006	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2007	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2004	2008	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2005	2009	58.00	0.000967	156.04	4.59	4.00	3.00	4.00
2006	2010	62.02	0.000981	162.04	4.27	4.00	3.00	4.00
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00

PGS - 2011 CASE P

SUMMARY OF SHRINKING BANDS

ACCOUNT NO. 39800 Miscellaneous Equipment

THIRD DEGREE

YEAR	YEAR	AVERAGE SERVICE LIFE (YEARS)	FIT INDEX	TERMINAL A/L RATIO (PERCENT)	EQUIV H CURVE	EQUIV L CURVE	EQUIV S CURVE	EQUIV R CURVE
2007	2011	399.00	0.000000	99.87	5.10	5.00	6.00	5.00
2006	2011	67.84	0.000720	167.30	4.16	4.00	3.00	4.00
2005	2011	67.69	0.000667	164.72	4.38	4.00	3.00	4.00
2004	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2003	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2002	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2001	2011	0.00	0.000000	0.00	0.00	0.00	0.00	0.00
2000	2011	25.36	0.009811	207.04	2.09	2.00	0.50	1.00
1999	2011	25.94	0.009410	198.56	2.15	2.00	0.50	1.50
1998	2011	26.00	0.008842	198.10	2.27	2.00	0.50	1.50
1997	2011	26.38	0.008665	195.22	2.34	2.00	1.00	1.50
1996	2011	26.73	0.008520	192.66	2.41	2.00	1.00	1.50
1995	2011	26.98	0.008371	190.89	2.46	2.00	1.00	2.00
1994	2011	26.85	0.008279	191.82	2.44	2.00	1.00	1.50
1993	2011	26.97	0.008214	190.96	2.46	2.00	1.00	2.00
1992	2011	26.83	0.008169	191.94	2.44	2.00	1.00	1.50
1991	2011	25.78	0.008160	203.68	2.34	2.00	1.00	1.50
1990	2011	25.64	0.008118	204.78	2.33	2.00	0.50	1.50
1989	2011	25.70	0.008093	204.26	2.34	2.00	1.00	1.50
1988	2011	25.74	0.008066	203.96	2.35	2.00	1.00	1.50
1987	2011	25.78	0.008042	203.62	2.35	2.00	1.00	1.50
1986	2011	25.67	0.008012	204.51	2.33	2.00	0.50	1.50

Peoples Gas System
Net Salvage Analysis
Account - 398.00 - Miscellaneous Equipment
Annual

PER BOOKS

Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0
2006	2,934	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2004	16,344	0	0	0	0	0	0
2003	192	0	0	0	0	0	0
2002	0	0	0	0	0	0	0
2001	200	0	0	0	0	0	0
2000	52,425	0	0	0	0	0	0
1999	6,953	0	0	0	0	0	0
1998	2,471	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	2,329	0	0	0	0	0	0
1994	5,260	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	2,199	0	0	0	0	0	0
1991	11,818	0	0	0	0	0	0
1990	2,321	0	0	67	3	67	3
1989	0	0	0	0	0	0	0
1988	331	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1986	4,756	(2,263)	(48)	0	0	(2,263)	(48)
1985	0	0	0	0	0	0	0
1984	873	0	0	0	0	0	0
1983	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0
	111,404	**(2,263)**	**(2)**	**67**	**0**	**(2,196)**	**(2)**

Peoples Gas System
Net Salvage Analysis
Account - 398.00 - Miscellaneous Equipment
5 Year Averages

PER BOOKS

5-yr ended Year	Retirements	Cost of Removal	Cost of Removal %	Gross Salvage	Gross Salvage %	Net Salvage	Net Salvage Percent
2010	2,934	0	0	0	0	0	0
2009	2,934	0	0	0	0	0	0
2008	19,278	0	0	0	0	0	0
2007	19,471	0	0	0	0	0	0
2006	19,471	0	0	0	0	0	0
2005	16,736	0	0	0	0	0	0
2004	69,161	0	0	0	0	0	0
2003	59,770	0	0	0	0	0	0
2002	62,049	0	0	0	0	0	0
2001	62,049	0	0	0	0	0	0
2000	61,849	0	0	0	0	0	0
1999	11,753	0	0	0	0	0	0
1998	10,060	0	0	0	0	0	0
1997	7,589	0	0	0	0	0	0
1996	9,788	0	0	0	0	0	0
1995	21,605	0	0	0	0	0	0
1994	21,597	0	0	67	0	67	0
1993	16,337	0	0	67	0	67	0
1992	16,667	0	0	67	0	67	0
1991	14,469	0	0	67	0	67	0
1990	7,407	(2,263)	(31)	67	1	(2,196)	(30)
1989	5,086	(2,263)	(44)	0	0	(2,263)	(44)
1988	5,959	(2,263)	(38)	0	0	(2,263)	(38)
1987	5,628	(2,263)	(40)	0	0	(2,263)	(40)
1986	5,628	(2,263)	(40)	0	0	(2,263)	(40)

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

For the Year Ended December 31, 2006

Acct. No.	Account Description		Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
374-00	Land-Distribution			2,336,530	814,032				(0)	3,150,562
	Amortizable General Plant Assets:									
301-00	Organization			12,620						12,620
302-00	Franchises and Consents			427,466						427,466
303-00	Misc Intangible Plant			815,325						815,325
303-01	Customized Software			14,642,070	1,504,156	(11,520)		(28)		16,134,678
374-02	Land Rights / Easements			1,162,793	42,444					1,205,236
386-02	Othr Prop Cust Prem-Desi			51,942		(51,942)				-
386-08	Othr Prop Cust Prem-CNG									
390-02	Structures&Improvem-Leas			39,043	8,754	(39,043)				8,754
	Depreciable Assets:			This schedule should identify each account/subaccount for which a separate depreciation rate has been approved by the FPSC.						
375-00	Land/Building Struct&Imp			14,469,931	1,106,503	(47,704)				15,528,730
376-00	Mains - Other than Plastic			233,063,117	8,372,633	(399,265)		(0)		241,036,486
376-02	Mains - Plastic			192,075,534	18,048,274	(130,237)		(0)		209,993,571
378-00	Regulator Stations-Meas&			4,944,594	222,053	(40,483)				5,126,163
379-00	City Gate Stations-Meas&			8,278,124	81,931	(25,710)				8,334,346
380-00	Service Lines - Steel			36,375,807	796,212	(584,933)			2,924	36,590,011
380-02	Service Lines - Plastic			146,821,009	11,218,298	(877,404)			(2,924)	157,158,977
381-00	Meters - All Types			31,003,491	3,981,690	(716,585)				34,268,596
382-00	Meter Installations			32,100,082	1,727,987					33,828,069
383-00	House Regulators			9,257,787	465,723	(85,790)				9,637,720
384-00	House Regulator Installa			11,924,320	1,723,631					13,647,951
385-00	Industrial Cust Regulato			9,166,917	426,246	(31,947)				9,561,217
387-00	Other Equipment-DistribS			1,644,879	393,261	(41,928)				1,996,213
390-00	Structures& Improvemen-U			1,176,285						1,176,285
391-00	Office Furniture			2,976,916	61,381	(102,624)				2,935,674
391-01	Computer Equipment			8,232,844	1,047,148	(1,659,588)		1,298		7,621,703
391-02	Office Equipment/Machine			651,777	5,685	(57,077)				600,385
392-01	Auto&Truck less than 1/2			6,230,501	1,373,705	(784,816)		(1,905)		6,817,484
392-02	Auto&Truck 3/4 - 1 ton			3,620,698	685,003	(90,006)		(762)		4,214,933
392-03	Airplanes			6,029,716	61,302					6,091,018
392-04	Trailers, Other			271,562	6,913	(9,935)				268,540
392-05	Trucks over 1 ton			1,038,784	261,877	(115,142)				1,185,519
393-00	Stores Equipment			56,473		(710)				55,763
394-00	Tools, Shop, & Garage Eq			3,510,807	107,319	(48,810)				3,569,316

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Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

For the Year Ended December 31, 2006

Acct. No.	Account Description		Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)										
395-00	Laboratory Equipment			129,578		(79,289)				50,289
396-00	Power Operated Equipment			1,751,114	51,109	(196,129)				1,606,093
397-00	Communication Equipment			4,738,563	32,140	(193,901)				4,576,802
398-00	Misc Equipment-Gas			388,487	35,325	(2,934)				420,877
Capital Recovery Schedules:										
118	Other Utility Plant									
Total Account 101*				791,417,488	54,662,733	(6,425,454)	-	(1,397)	(0)	839,653,371
Amortizable Assets:										
114	Acquisition Adjustment			5,248,671						5,248,671
105	Property Held for Future Use			228,955						228,955
	Total Utility Plant			796,895,113	54,662,733	(6,425,454)		(1,397)	(0)	845,130,996

Note: * The total beginning and ending balances must agree to acct. 101, Plant in Service, Line 3, Page 12.

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

For the Year Ended December 31, 2006

Acct. No.	Account Description	Beginning Balance*	Accruals	Reclass.	Retirements	Gross Salvage	Cost of Removal	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:										
301-20	Organization	(3,116)								(3,116)
302-20	Franchises & Consents	(361,647)	(15,651)							(377,298)
303-20	Misc Intangible Plant	(387,887)	(32,610)							(420,497)
303-51	Customized Software	(10,578,496)	(1,156,456)		11,520					(11,723,432)
374-22	Land Rights / Easements	(726,933)	(77,604)			(16,928)	1,206			(820,259)
386-22	Othr Prop Cust Prem-Desi	(15,149)	(36,793)		51,942					0
390-02	Structure & Improvements-Leased	(30,148)	(851)		39042.81					8,043
Items necessary to reconcile the total amortization accrual amount to Acct. 404.3, Amortization Expense, shown on page 8.								-	-	
303-51	Customized Software ***		8,999							8,999
SUB-TOTAL		(12,103,376)	(1,310,966)		102,505	(16,928)	1,206	-	-	(13,327,559)
This schedule should identify each account/subaccount for which a separate depreciation rate has been approved by the FPSC.										
374-50	Land	3,603				(3,588)	1,173	2,416		3,603
375-50	Land/Building Struct&Imp	(3,172,512)	(406,657)		47,704	(4,102)	13,161			(3,522,406)
376-50	Mains - Other than Plastic	(124,277,697)	(9,154,427)		399,265	2,000	863,334			(132,167,525)
376-52	Mains - Plastic	(52,666,908)	(6,507,367)		130,237	(10,000)	205,657			(58,848,382)
378-50	Regulator Stations-Meas&	(1,328,071)	(196,255)		23,785		23,215			(1,477,326)
378-51	Regulator Stations-Do no	(138,284)	(4,069)		16,699					(125,655)
379-50	City Gate Stations-Meas&	(2,307,018)	(252,117)		25,710	(797)	45,893			(2,488,330)
379-51	City Gate Stations-Do no	(31,555)	(904)							(32,458)
380-50	Service Lines - Steel	(31,834,774)	(2,399,721)		584,933	(79,890)	868,366			(32,861,086)
380-52	Service Lines - Plastic	(47,082,921)	(6,630,422)		877,404	(84,016)	646,922			(52,273,032)
381-50	Meters - All Types	(6,416,147)	(1,723,853)		716,585	(282,594)	30,732			(7,675,277)
381-51	Meters - Do not use	(2,667)	(164)							(2,831)
382-50	Meter Installations	(10,511,715)	(1,410,261)							(11,921,976)
383-50	House Regulators	(4,173,425)	(431,496)		85,790	(30,974)	(240)			(4,550,344)
384-50	House Regulator Installa	(3,385,807)	(555,439)							(3,941,246)
385-50	Industrial Cust Regulato	(3,155,196)	(279,400)		31,947					(3,402,650)
387-50	Other Equipment-DistribS	(800,734)	(153,690)		41,928					(912,496)
390-50	Structures& Improvemen-U	(201,029)	(31,760)							(232,789)
391-50	Office Furniture	(1,000,177)	(288,311)		102,624					(1,185,864)
391-51	Computer Equipment	(6,878,700)	(1,392,278)		1,659,588					(6,611,391)
391-52	Office Equipment/Machine	(284,485)	(42,333)		57,077					(269,741)
391-53	Office Furniture/Equip	-								-
392-51	Auto&Truck less than 1/2	(3,013,439)	(982,498)		784,816	(49,560)	7,811			(3,252,869)
392-52	Auto&Truck 3/4 - 1 ton	(1,183,702)	(436,884)		90,006	(8,000)	431			(1,538,148)
392-53	Airplanes	(328,692)	(103,528)							(432,220)
392-54	Trailers, Other	(138,431)	(10,530)		9,935	(2,609)	114			(141,520)
392-55	Trucks over 1 ton	(558,528)	(82,886)		115,142	(11,517)	552			(537,237)
393-50	Stores Equipment	(54,008)	(493)		710					(53,791)

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Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

For the Year Ended December 31, 2006

Acct. No.	Account Description	Beginning Balance*	Accruals	Reclass.	Retirements	Gross Salvage	Cost of Removal	Adjustments	Transfers	Ending Balance*
(Continued)										
394-50	Tools, Shop, & Garage Eq	(2,064,944)	(229,453)		48,810	(500)	121			(2,245,966)
394-51	Tools, Shop,& Garage-CNG	(126,785)	(11,321)							(138,107)
395-50	Laboratory Equipment	(50,482)	(5,116)		79,289					23,691
396-50	Power Operated Equipment	(1,289,356)	(103,945)		196,129	(25,531)	1,599			(1,221,103)
397-50	Communication Equipment	(1,618,761)	(463,369)		193,901					(1,888,229)
398-50	Misc Equipment-Gas	(226,082)	(13,300)		2,934					(236,448)
303-51	Customized Software ***		(8,999)							(8,999)
*** Division 55 Book Depreciation Entity (BDE) set up incorrectly on report structure as 403.1. Should have been 404.3 as on journal.										
Capital Recovery Schedules:										-
	Subtotal	(310,299,428)	(34,313,246)	-	6,322,949	(591,677)	2,708,840	2,416		(336,170,147)
List any other items necessary to reconcile the total depreciation and amortization accrual amount to Acct. 403, Depreciation Expense, shown on page 8.										
	Retirement Work in Progress (108)	1,228,427					269,568			1,497,994
115	Acquisition Adjustment	(2,957,604)						(156,371)		(3,113,975)
	Subtotal	(1,729,177)	-	-	-	-	269,568	(156,371)		(1,615,981)
	Grand Total	(324,131,981)	(35,624,212)	-	6,425,454	(608,605)	2,979,614	(153,955)		(351,113,687)

Note: * The grand total of beginning and ending balances must agree to Line 17, Page 12.

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PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011

Annual Status Report
Analysis of Plant in Service Accounts

For the Year Ended December 31, 2007

Acct. No.	Account Description		Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
374-00	Land-Distribution			3,150,562	1	(394)				3,150,169
	Amortizable General Plant Assets:									
301-00	Organization			12,620						12,620
302-00	Franchises and Consents			427,466						427,466
303-00	Misc Intangible Plant			815,325						815,325
303-01	Customized Software			16,134,678	14,031	(5,011)				16,143,698
374-02	Land Rights / Easements			1,205,236	16,821				93,846	1,315,903
386-02	Othr Prop Cust Prem-Desi			-						-
386-08	Othr Prop Cust Prem-CNG									
390-02	Structures&Improvem-Leas			8,754						8,754
	Depreciable Assets:			**This schedule should identify each account/subaccount for which a separate depreciation rate has been approved by the FPSC.**						
375-00	Land/Building Struct&Imp			15,528,730	1,086,804	(107,654)				16,507,880
376-00	Mains - Other than Plastic			241,036,486	3,730,075	(1,121,402)				243,645,158
376-02	Mains - Plastic			209,993,571	8,821,029	(685,402)				218,129,197
378-00	Regulator Stations-Meas&			5,126,163	339,696	(35,202)				5,430,658
379-00	City Gate Stations-Meas&			8,334,346	982,474	(1,185)			(93,846)	9,221,790
380-00	Service Lines - Steel			36,590,011	1,157,285	(492,903)				37,254,393
380-02	Service Lines - Plastic			157,158,977	9,849,516	(1,000,686)		(2,377)		166,005,430
381-00	Meters - All Types			34,268,596	3,603,082	(986,293)				36,885,385
382-00	Meter Installations			33,828,069	2,294,052	(1,096,852)				35,025,269
383-00	House Regulators			9,637,720	508,658	(84,798)				10,061,581
384-00	House Regulator Installa			13,647,951	916,243	(369,613)				14,194,581
385-00	Industrial Cust Regulato			9,561,217	12,083					9,573,299
387-00	Other Equipment-DistribS			1,996,213	276,180	(21,823)				2,250,569
390-00	Structures& Improvemen-U			1,176,285						1,176,285
391-00	Office Furniture			2,935,674	104,656	(212,091)				2,828,239
391-01	Computer Equipment			7,621,703	530,442	(177,909)				7,974,236
391-02	Office Equipment/Machine			600,385	112,165	(166,618)				545,931
392-01	Auto&Truck less than 1/2			6,817,484	998,818	(1,418,712)		(2,700)		6,394,890
392-02	Auto&Truck 3/4 - 1 ton			4,214,933	917,752	(506,219)				4,626,466
392-03	Airplanes			6,091,018						6,091,018
392-04	Trailers, Other			268,540	11,865	(1,137)				279,268
392-05	Trucks over 1 ton			1,185,519	394,577	(42,687)				1,537,409
393-00	Stores Equipment			55,763		(6,850)				48,913
394-00	Tools, Shop, & Garage Eq			3,569,316	117,346	(38,735)				3,647,928

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Annual Status Report
Analysis of Plant in Service Accounts

Company:

For the Year Ended December 31, 2007

Acct. No.	Account Description		Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)										
395-00	Laboratory Equipment			50,289		(3,844)				46,445
396-00	Power Operated Equipment			1,606,093	52,599	(56,504)				1,602,189
397-00	Communication Equipment			4,576,802	508,066	(97,245)				4,987,623
398-00	Misc Equipment-Gas			420,877	16,870					437,747
Capital Recovery Schedules:										
118	**Other Utility Plant**									
Total Account 101*				839,653,371	37,373,186	(8,737,769)	-	(5,077)	-	868,283,711
Amortizable Assets:										
114	Acquisition Adjustment			5,248,671						5,248,671
105	Property Held for Future Use			228,955						228,955
	Total Utility Plant			845,130,996	37,373,186	(8,737,769)		(5,077)	-	873,761,336

Note: * The total beginning and ending balances must agree to acct. 101, Plant in Service, Line 3, Page 12.

PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company:

For the Year Ended December 31, 2007

Acct. No.	Account Description	Beginning Balance*	Accruals	Reclass.	Retirements	Gross Salvage	Cost of Removal	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:										
301-20	Organization	(3,116)								(3,116)
302-20	Franchises & Consents	(377,298)	(15,651)							(392,949)
303-20	Misc Intangible Plant	(420,497)	(32,610)							(453,107)
303-51	Customized Software	(11,723,432)	(1,068,755)		5,011					(12,787,176)
374-22	Land Rights / Easements	(820,259)	(64,215)						(8,329)	(892,803)
386-22	Othr Prop Cust Prem-Desi	0								0
390-02	Structure & Improvements-Leased	8,043	(236)							7,807
Items necessary to reconcile the total amortization accrual amount to Acct. 404.3, Amortization Expense, shown on page 8.										
										-
SUB-TOTAL		(13,336,558)	(1,181,467)		5,011	0	0	0	(8,329)	(14,521,344)
This schedule should identify each account/subaccount for which a separate depreciation rate has been approved by the FPSC.										
374-50	Land	3,603			394	(1,128,234)		1,127,840		3,602
375-50	Land/Building Struct&Imp	(3,522,406)	(458,616)		107,654	(46,766)	14,948			(3,905,186)
376-50	Mains - Other than Plastic	(132,167,525)	(10,215,179)		1,121,402		484,426	(509,008)		(141,285,884)
376-52	Mains - Plastic	(58,848,382)	(6,881,102)		685,402		202,999			(64,841,084)
378-50	Regulator Stations-Meas&	(1,477,326)	(179,455)		35,202		8,441	231,324		(1,381,815)
378-51	Regulator Stations-Do no	(125,655)	(3,499)							(129,154)
379-50	City Gate Stations-Meas&	(2,488,330)	(314,723)		1,185			300,330	8,329	(2,493,209)
379-51	City Gate Stations-Do no	(32,458)	(904)							(33,362)
380-50	Service Lines - Steel	(32,861,086)	(2,935,317)		492,903	(650)	1,163,317			(34,140,832)
380-52	Service Lines - Plastic	(52,273,032)	(8,042,239)		1,000,686	(200)	810,935	0		(58,503,850)
381-50	Meters - All Types	(7,675,277)	(2,309,663)		986,293	(119,444)	36,159	(647,670)		(9,729,601)
381-51	Meters - Do not use	(2,831)	(164)							(2,995)
382-50	Meter Installations	(11,921,976)	(1,697,551)		1,096,852	(43,043)	262,646			(12,303,073)
383-50	House Regulators	(4,550,344)	(360,562)		84,798	(1,414)		625,024		(4,202,499)
384-50	House Regulator Installa	(3,941,246)	(699,172)		369,613	(13,324)	92,255			(4,191,873)
385-50	Industrial Cust Regulato	(3,402,650)	(325,606)							(3,728,256)
387-50	Other Equipment-DistribS	(912,496)	(129,656)		21,823		(446)			(1,020,774)
390-50	Structures& Improvemen-U	(232,789)	(32,169)							(264,958)
391-50	Office Furniture	(1,185,864)	(225,448)		212,091					(1,199,222)
391-51	Computer Equipment	(6,611,391)	(578,953)		177,909					(7,012,435)
391-52	Office Equipment/Machine	(269,741)	(46,735)		166,618					(149,858)
391-53	Office Furniture/Equip	-								-
392-51	Auto&Truck less than 1/2	(3,252,869)	(739,149)		1,418,712	(68,483)				(2,641,788)
392-52	Auto&Truck 3/4 - 1 ton	(1,538,148)	(639,097)		506,219	(25,874)				(1,696,899)
392-53	Airplanes	(432,220)	(115,705)							(547,925)
392-54	Trailers, Other	(141,520)	(11,286)		1,137	(150)				(151,820)
392-55	Trucks over 1 ton	(537,237)	(143,495)		42,687	(2,200)				(640,245)
393-50	Stores Equipment	(53,791)	2,422		6,850	(2,500)				(47,019)

PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company:

For the Year Ended December 31, 2007

Acct. No.	Account Description	Beginning Balance*	Accruals	Reclass.	Retirements	Gross Salvage	Cost of Removal	Adjustments	Transfers	Ending Balance*
(Continued)										
394-50	Tools, Shop, & Garage Eq	(2,245,966)	(211,397)		34,017					(2,423,345)
394-51	Tools, Shop,& Garage-CNG	(138,107)	(11,071)		4,718					(144,460)
395-50	Laboratory Equipment	23,691	(3,744)		3,844					23,792
396-50	Power Operated Equipment	(1,221,103)	(85,507)		56,504	(4,700)				(1,254,807)
397-50	Communication Equipment	(1,888,229)	(564,644)		97,245					(2,355,628)
398-50	Misc Equipment-Gas	(236,448)	(17,043)							(253,491)
Capital Recovery Schedules:										
	Subtotal	(336,161,148)	(37,976,428)	-	8,732,758	(1,456,982)	3,075,680	1,127,840	8,329	(362,649,951)
List any other items necessary to reconcile the total depreciation and amortization accrual amount to Acct. 403, Depreciation Expense, shown on page 8.										
	Retirement Work In Progress (108)	1,497,994					364,913			1,862,907
115	Acquisition Adjustment	(3,113,975)						(156,372)		(3,270,347)
	Subtotal	(1,615,981)	-	-	-	-	364,913	(156,372)		(1,407,440)
	Grand Total	(351,113,687)	(39,157,895)	-	8,737,769	(1,456,982)	3,440,593	971,468	-	(378,578,735)

Note: * The grand total of beginning and ending balances must agree to Line 17, Page 12.

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PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

For the Year Ended December 31, 2008

Acct. No.	Account Description	Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
374-00	Land-Distribution		3,150,169	144,000	(249,366)				3,044,803
	Amortizable General Plant Assets:								
301-00	Organization		12,620						12,620
302-00	Franchises and Consents		427,466						427,466
303-00	Misc Intangible Plant		815,325						815,325
303-01	Customized Software		16,143,698	128,461	(2,158,781)				14,113,378
374-02	Land Rights / Easements		1,315,903	54,865					1,370,769
386-02	Othr Prop Cust Prem-Desi		-						-
386-08	Othr Prop Cust Prem-CNG								-
390-02	Structures&Improvem-Leas		8,754	62,222					70,976
Depreciable Assets:	**This schedule should identify each account/subaccount for which a separate depreciation rate has been approved by the FPSC.**								
375-00	Land/Building Struct&Imp		16,507,880	499,923	(573,066)			503,060	16,937,796
376-00	Mains - Other than Plastic		243,645,158	9,200,293	(788,094)				252,057,357
376-02	Mains - Plastic		218,129,197	12,164,459	(644,690)		(17,940)		229,631,026
378-00	Regulator Stations-Meas&		5,430,658	233,719	(6,556)				5,657,821
379-00	City Gate Stations-Meas&		9,221,790	2,694,931					11,916,721
380-00	Service Lines - Steel		37,254,393	1,104,626	(207,489)				38,151,530
380-02	Service Lines - Plastic		166,005,430	8,036,906	(369,362)		(77,350)		173,595,624
381-00	Meters - All Types		36,885,385	4,264,345	(1,053,002)		(97,500)		39,999,228
382-00	Meter Installations		35,025,269	2,283,589	(468,673)		(39,000)		36,801,185
383-00	House Regulators		10,061,581	529,731	(72,529)				10,518,783
384-00	House Regulator Installa		14,194,581	761,191	(231,216)				14,724,557
385-00	Industrial Cust Regulato		9,573,299	82,586	(51,692)				9,604,193
387-00	Other Equipment-DistribS		2,250,569	188,640	(11,012)				2,428,197
390-00	Structures& Improvemen-U		1,176,285		(673,225)			(503,060)	-
391-00	Office Furniture		2,828,239	66,104	(18,018)				2,876,324
391-01	Computer Equipment		7,974,236	1,104,714	(534,815)				8,544,135
391-02	Office Equipment/Machine		545,931	3,279	(26,158)				523,052
392-01	Auto&Truck less than 1/2		6,394,890	547,580	(728,319)				6,214,152
392-02	Auto&Truck 3/4 - 1 ton		4,626,466	638,554	(435,202)		(3,750)		4,826,069
392-03	Airplanes		6,091,018						6,091,018
392-04	Trailers, Other		279,268	6,491	(15,410)				270,349
392-05	Trucks over 1 ton		1,537,409		(174,207)				1,363,202
393-00	Stores Equipment		48,913						48,913
394-00	Tools, Shop, & Garage Eq		3,647,928	81,733	(245,012)				3,484,649

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

For the Year Ended December 31, 2008

Acct. No.	Account Description	Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)									
395-00	Laboratory Equipment		46,445						46,445
396-00	Power Operated Equipment		1,602,189	74,752	(24,190)				1,652,751
397-00	Communication Equipment		4,987,623	184,239	(244,029)				4,927,832
398-00	Misc Equipment-Gas		437,747	6,249					443,996
Capital Recovery Schedules:									
Total Account 101*			868,283,711	45,148,182	(10,004,114)	-	(235,540)	-	903,192,239
Amortizable Assets:									
114	Acquisition Adjustment		5,248,671						5,248,671
105	Property Held for Future Use		228,955						228,955
	Total Utility Plant		873,761,336	45,148,182	(10,004,114)	-	(235,540)	-	908,669,864

Note: * The total beginning and ending balances must agree to acct. 101, Plant in Service, Line 3, Page 12.

PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

For the Year Ended December 31, 2008

Acct. No.	Account Description	Beginning Balance*	Accruals	Reclass.	Retirements	Gross Salvage	Cost of Removal	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:										
301-20	Organization	(3,116)								(3,116)
302-20	Franchises & Consents	(392,950)	(15,651)							(408,601)
303-20	Misc Intangible Plant	(453,107)	(32,610)							(485,716)
303-51	Customized Software	(12,787,176)	(998,287)		2,158,781					(11,626,682)
374-22	Land Rights / Easements	(892,803)	(84,690)							(977,493)
386-22	Othr Prop Cust Prem-Desi	0								0
390-02	Structure & Improvements-Leased	7,807	(308)							7,499
Items necessary to reconcile the total amortization accrual amount to Acct. 404.3, Amortization Expense, shown on page 8.										
SUB-TOTAL		(14,521,344)	(1,131,546)	-	2,158,781	-	-	-	-	(13,494,109)
This schedule should identify each account/subaccount for which a separate depreciation rate has been approved by the FPSC.										
374-50	Land	3,602			249,366				(3,603)	249,365
375-50	Land/Building Struct&Imp	(3,905,186)	(475,108)		573,067		1,358		(129,497)	(3,935,367)
376-50	Mains - Other than Plastic	(141,285,884)	(10,638,897)		788,094	(3,709)	923,222			(150,217,174)
376-52	Mains - Plastic	(64,841,084)	(7,289,414)		644,690	(2,250)	291,603	(111)		(71,196,565)
378-50	Regulator Stations-Meas&	(1,381,815)	(190,125)		6,556	(506)	3,824			(1,562,066)
378-51	Regulator Stations-Do no	(129,154)	(3,499)							(132,653)
379-50	City Gate Stations-Meas&	(2,493,209)	(469,808)							(2,963,016)
379-51	City Gate Stations-Do no	(33,362)	(904)							(34,266)
380-50	Service Lines - Steel	(34,140,832)	(2,997,964)		207,489	(950)	589,778			(36,342,480)
380-52	Service Lines - Plastic	(58,503,850)	(8,467,926)		369,362	(200)	331,789	(2,000)		(66,272,824)
381-50	Meters - All Types	(9,729,601)	(2,497,184)		1,053,002	(73,413)	36,591			(11,210,605)
381-51	Meters - Do not use	(2,995)	(164)							(3,158)
382-50	Meter Installations	(12,303,073)	(1,715,080)		468,673		123,257			(13,426,223)
383-50	House Regulators	(4,202,499)	(376,462)		72,529	(1,064)				(4,507,496)
384-50	House Regulator Installa	(4,191,873)	(706,823)		231,216		66,549			(4,600,931)
385-50	Industrial Cust Regulato	(3,728,256)	(325,958)		51,692					(4,002,522)
387-50	Other Equipment-DistribS	(1,020,774)	(146,836)		11,012					(1,156,598)
390-50	Structures& Improvemen-U	(264,958)	(14,741)		673,225				129,497	523,022
391-50	Office Furniture	(1,199,222)	(220,311)		18,018	(1,378)	(60)			(1,402,953)
391-51	Computer Equipment	(7,012,435)	(731,055)		534,815					(7,208,675)
391-52	Office Equipment/Machine	(149,858)	(36,732)		26,158	(122)				(160,554)
391-53	Office Furniture/Equip	-								-
392-51	Auto&Truck less than 1/2	(2,641,788)	(684,438)		728,319	(46,895)				(2,644,803)
392-52	Auto&Truck 3/4 - 1 ton	(1,696,899)	(693,131)		435,202	(33,596)				(1,988,425)
392-53	Airplanes	(547,925)	(115,705)							(663,630)
392-54	Trailers, Other	(151,820)	(11,165)		15,410	(2,358)				(149,933)
392-55	Trucks over 1 ton	(640,245)	(139,719)		174,207	(6,374)				(612,130)
393-50	Stores Equipment	(47,019)	(78)							(47,097)

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

For the Year Ended December 31, 2008

Acct. No.	Account Description	Beginning Balance*	Accruals	Reclass.	Retirements	Gross Salvage	Cost of Removal	Adjustments	Transfers	Ending Balance*
(Continued)										
394-50	Tools, Shop, & Garage Eq	(2,423,345)	(211,571)		96,316	(7,642)				(2,546,242)
394-51	Tools, Shop,& Garage-CNG	(144,460)	(3,119)		148,696		650			1,767
395-50	Laboratory Equipment	23,792	(2,851)							20,941
396-50	Power Operated Equipment	(1,254,807)	(85,756)		24,190	(6,780)				(1,323,153)
397-50	Communication Equipment	(2,355,628)	(564,560)		244,029					(2,676,158)
398-50	Misc Equipment-Gas	(253,491)	(17,289)							(270,779)
Capital Recovery Schedules:										
	Subtotal	(362,649,951)	(39,834,375)	-	7,845,333	(187,238)	2,368,562	(2,110)	(3,603)	(392,463,382)
List any other items necessary to reconcile the total depreciation and amortization accrual amount to Acct. 403, Depreciation Expense, shown on page 8.										
	Retirement Work in Progress (108)	1,862,907					(628,843)			1,234,064
115	Acquisition Adjustment	(3,270,347)						(155,509)		(3,425,856)
	Subtotal	(1,407,440)	-	-	-	-	(628,843)	(155,509)		(2,191,792)
	Grand Total	(378,578,735)	(40,965,921)	-	10,004,114	(187,238)	1,739,719	(157,619)	(3,603)	(408,149,282)

Note: * The grand total of beginning and ending balances must agree to Line 17, Page 12.

PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

For the Year Ended December 31, 2009

Acct. No.	Account Description	Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:									
301-00	Organization		12,620	-	-	-	-	-	12,620
302-00	Franchise & Consents		427,466	-	-	-	-	-	427,466
303-00	Misc Intangible Plant		815,325	-	-	-	-	-	815,325
303-01	Custom Intangible Plant		14,848,334	2,028,507	-	-	-	-	16,876,841
374-02	Land Rights		2,358,398	1,431,628	-	-	-	-	3,790,026
390-02	Structures & Improve Leases		70,976	-	-	-	-	-	70,976
	Subtotal		18,533,119	3,460,134	-	-	-	-	21,993,253
Depreciable Assets:									
374-00	Land Distribution		3,207,101	90,597	-	-	-	-	3,297,699
375-00	Structures & Improvements		17,101,778	258,993	-	-	-	-	17,360,772
376-00	Mains Steel		272,532,250	26,585,606	(567,754)	-	-	-	298,550,102
376-02	Mains Plastic		256,608,678	16,247,664	(544,276)	-	-	(3,661)	272,308,405
378-00	Meas & Reg Station Eqp Gen		5,895,328	299,585	(33,078)	-	-	-	6,161,834
379-00	Meas & Reg Station Eqp City		16,150,426	1,287,318	(8,454)	-	-	-	17,429,291
380-00	Services Steel		38,151,530	895,101	(152,641)	-	-	-	38,893,991
380-02	Services Plastic		173,595,624	6,439,795	(436,476)	-	-	3,661	179,602,604
381-00	Meters		39,999,228	2,110,363	(1,384,946)	-	-	-	40,724,645
382-00	Meter Installations		36,801,185	2,077,163	(331,593)	-	-	-	38,546,755
383-00	House Regulators		10,518,783	657,718	(77,810)	-	-	-	11,098,691
384-00	House Regulator Installs		14,724,557	693,518	(175,395)	-	-	-	15,242,680
385-00	Meas & Reg Station Eqp Ind		9,604,193	-	(43,640)	-	-	-	9,560,552
387-00	Other Equipment		2,518,918	679,157	(3,407)	-	-	-	3,194,668
390-00	Structures & Improvements		-	9,582	-	-	-	-	9,582
391-00	Office Furniture		2,876,324	19,484	(25,422)	-	-	-	2,870,386
391-01	Computer Equipment		10,197,165	826,208	(386,348)	-	-	-	10,637,025
391-02	Office Equipment		528,592	-	-	-	-	-	528,592
392-01	Vehicles up to 1/2 Tons		6,304,546	330,936	(529,153)	-	-	-	6,106,329
392-02	Vehicles from 1/2 - 1 Tons		4,912,302	84,120	(161,786)	-	-	-	4,834,636
392-03	Airplane		6,091,018	-	(6,091,018)	-	-	-	-
392-04	Trailers & Other		270,349	4,642	(6,739)	-	-	-	268,252
392-05	Vehicles over 1 Ton		1,363,202	-	(131,294)	-	-	-	1,231,907
393-00	Stores Equipment		48,913	-	-	-	-	-	48,913
394-00	Tools, Shop & Garage Equip		3,531,359	197,069	(53,995)	-	-	-	3,674,433
395-00	Laboratory Equipment		46,445	-	-	-	-	-	46,445
396-00	Power Operated Equipment		1,652,751	82,699	(10,298)	-	-	-	1,725,152
397-00	Communication Equipment		4,927,832	615,768	-	-	-	-	5,543,601
398-00	Miscellaneous Equipment		443,996	-	-	-	-	-	443,996

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

For the Year Ended December 31, 2009

Acct. No.	Account Description	Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)									
Capital Recovery Schedules:									
Total Account 101 and 106*			959,137,491	63,953,222	(11,155,522)	-	-	-	1,011,935,192
105-00	Property Held for Future Use		5,248,671	-	-	-	-	-	5,248,671
114-00	Acquisition Adjustment		228,955	-	-	-	-	-	228,955
	Subtotal		5,477,626	-	-	-	-	-	5,477,626
Total Utility Plant**			964,615,117	63,953,222	(11,155,522)	-	-	-	1,017,412,817

Note: * The total beginning and ending balances must agree to acct. 101 and 106, Plant in Service, Line 3 and Line 6, Page 12.

Note: ** The total beginning and ending balances must agree to Line 11, Page 12.

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

For the Year Ended December 31, 2009

Acct. No.	Account Description	Beginning Balance*	Accruals	Retirements	Gross Salvage	Cost of Removal	Reclass.	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:										
301-00	Organization	3,116	-	-	-	-	-	-	-	3,116
302-00	Franchise & Consents	408,602	3,683	-	-	-	-	-	-	412,285
303-00	Misc Intangible Plant	485,716	32,613	-	-	-	-	-	-	518,329
303-01	Custom Intangible Plant	11,626,681	1,042,553	-	-	-	-	-	-	12,669,234
374-02	Land Rights	977,493	123,060	-	-	-	-	-	-	1,100,553
390-02	Structures & Improve Leases	(7,499)	321	-	-	-	-	-	-	(7,178)
	Subtotal 108 - 404*	13,494,109	1,202,229	-	-	-	-	-	-	14,696,338
Items necessary to reconcile the total amortization accrual amount to Acct. 404.3, Amortization Expense, shown on Line 7, Page 8.										
Depreciable Assets:										
374-00	Land Distribution	(249,366)	-	-	1,546,443	(87,566)	-	(1,209,512)	-	-
375-00	Structures & Improvements	3,935,367	480,752	-	107,474	(39,049)	-	-	-	4,484,544
376-00	Mains Steel	150,217,174	11,339,889	(567,754)	-	(1,559,848)	-	-	-	159,429,461
376-02	Mains Plastic	71,196,565	7,689,600	(544,276)	-	(458,324)	-	-	(139)	77,883,426
378-00	Meas & Reg Station Eqp Gen	1,694,719	199,125	(33,078)	42	(28,935)	-	-	-	1,831,873
379-00	Meas & Reg Station Eqp City	2,997,282	556,907	(8,454)	-	(6,136)	-	-	-	3,539,600
380-00	Services Steel	36,342,480	3,079,664	(152,641)	1,150	(537,477)	-	-	-	38,733,176
380-02	Services Plastic	66,272,824	8,982,943	(436,476)	450	(250,016)	-	-	139	74,569,863
381-00	Meters	11,213,764	2,663,647	(1,384,946)	85,461	(19,102)	-	-	-	12,558,823
382-00	Meter Installations	13,426,223	1,883,928	(331,593)	-	(120,444)	-	-	-	14,858,114
383-00	House Regulators	4,507,496	379,427	(77,810)	633	-	-	-	-	4,809,746
384-00	House Regulator Installs	4,600,931	764,145	(175,395)	-	(43,322)	-	-	-	5,146,360
385-00	Meas & Reg Station Eqp Ind	4,002,522	326,452	(43,640)	-	(160)	-	-	-	4,285,173
387-00	Other Equipment	1,156,598	156,227	(3,407)	-	-	-	-	-	1,309,419
390-00	Structures & Improvements	(523,022)	46	-	802,410	(236,406)	-	-	-	43,027
391-00	Office Furniture	1,402,953	218,056	(25,422)	-	-	-	-	-	1,595,587
391-01	Computer Equipment	7,208,674	759,065	(386,348)	-	-	-	-	-	7,581,391
391-02	Office Equipment	160,554	37,001	-	-	-	-	-	-	197,555
392-01	Vehicles up to 1/2 Tons	2,644,803	667,522	(529,153)	38,640	-	-	-	-	2,821,811
392-02	Vehicles from 1/2 - 1 Tons	1,988,425	693,972	(161,786)	12,435	-	-	-	-	2,533,046
392-03	Airplane	663,630	115,729	(6,091,018)	1,800,001	(461)	-	-	-	(3,512,118)
392-04	Trailers & Other	149,933	11,002	(6,739)	800	-	-	-	-	154,997
392-05	Vehicles over 1 Ton	612,130	130,568	(131,294)	3,016	-	-	-	-	614,420
393-00	Stores Equipment	47,097	880	-	-	-	-	-	-	47,978
394-00	Tools, Shop & Garage Equip	2,544,475	214,756	(53,995)	51	(10)	-	-	-	2,705,278
395-00	Laboratory Equipment	(20,941)	4,158	-	-	-	-	-	-	(16,783)
396-00	Power Operated Equipment	1,323,153	86,772	(10,298)	-	-	-	-	-	1,399,627
397-00	Communication Equipment	2,676,158	603,452	-	-	-	-	-	-	3,279,610
398-00	Miscellaneous Equipment	270,779	19,092	-	-	-	-	-	-	289,871

PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

For the Year Ended December 31, 2009

Acct. No.	Account Description	Beginning Balance*	Accruals	Retirements	Gross Salvage	Cost of Removal	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)										
107-800	Retirement Works in Progress	(1,234,064)	-	-	(245,623)	(17,745)	-	-	-	(1,497,431)
Capital Recovery Schedules:										
	Subtotal 108 - 403*	391,229,318	42,064,778	(11,155,522)	4,153,384	(3,405,002)	-	(1,209,512)	-	421,677,445
Items necessary to reconcile the total depreciation and amortization accrual amount to Acct. 403, Depreciation Expense, shown on Line 6, Page 8.										
105-00	Property Held for Future Use	-	-	-	-	-	-	-	-	-
115-00	Acquisition Adjustment	3,425,856	154,755	-	-	-	-	-	-	3,580,610
	Subtotal	3,425,856	154,755	-	-	-	-	-	-	3,580,610
Total Accum Reserves**		408,149,282	43,421,762	(11,155,522)	4,153,384	(3,405,002)	-	(1,209,512)	-	439,954,393

Per rule 25-7.045(9) , there has been no change of plans or utility experience requiring a change of rates, amortization or capital recovery schedule.

Note: * The total beginning and ending balances must agree to acct. 108 Depreciation, Line 17, Page 12.

Note: ** The total beginning and ending balances must agree to Line 32, Page 12.

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PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

For the Year Ended December 31, 2010

Acct. No.	Account Description	Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:									
301-00	Organization	0.0	12,620	-	-	-	-	-	12,620
302-00	Franchise & Consents	4.0	427,466	-	-	-	-	-	427,466
303-00	Misc Intangible Plant	4.0	815,325	-	-	-	-	-	815,325
303-01	Custom Intangible Plant	6.7	16,876,841	1,544,310	(6,946)	-	-	-	18,414,205
374-02	Land Rights	3.1	3,790,026	(1,218,104)	-	-	-	-	2,571,921
390-02	Structures & Improve Leases	2.9	70,976	-	-	-	-	-	70,976
	Subtotal		21,993,253	326,205	(6,946)	-	-	-	22,312,512
Depreciable Assets:									
374-00	Land Distribution	0.0	3,297,699	-	-	-	-	-	3,297,699
375-00	Structures & Improvements	2.8	17,360,772	974,076	(1,000)	-	-	-	18,333,848
376-00	Mains Steel	4.0	298,550,102	10,923,221	(1,634,371)	-	-	-	307,838,952
376-02	Mains Plastic	2.9	272,308,405	15,712,368	(262,591)	-	-	-	287,758,182
378-00	Meas & Reg Station Eqp Gen	3.3	6,161,834	293,094	(15,679)	-	-	-	6,439,250
379-00	Meas & Reg Station Eqp City	3.4	17,429,291	1,441,024	(20,727)	-	-	-	18,849,587
380-00	Services Steel	8.0	38,893,991	985,859	(112,304)	-	-	-	39,767,546
380-02	Services Plastic	5.1	179,602,604	8,669,406	(287,525)	-	-	-	187,984,485
381-00	Meters	6.6	40,724,645	6,525,034	(1,277,694)	-	-	-	45,971,985
382-00	Meter Installations	5.0	38,546,755	2,024,877	(296,704)	-	-	-	40,274,928
383-00	House Regulators	3.5	11,098,691	581,637	(41,037)	-	-	-	11,639,291
384-00	House Regulator Installs	5.1	15,242,680	676,818	(162,024)	-	-	-	15,757,473
385-00	Meas & Reg Station Eqp Ind	3.4	9,560,552	-	(43,836)	-	-	-	9,516,717
387-00	Other Equipment	5.7	3,194,668	432,465	(26,324)	-	-	-	3,600,810
390-00	Structures & Improvements	2.9	9,582	-	-	-	-	-	9,582
391-00	Office Furniture	7.6	2,870,386	37,648	(131,339)	-	-	-	2,776,694
391-01	Computer Equipment	7.2	10,637,025	(1,308,818)	(1,776,939)	-	-	-	7,551,267
391-02	Office Equipment	7.0	528,592	11,702	(9,757)	-	-	-	530,536
392-01	Vehicles up to 1/2 Tons	10.6	6,106,329	1,050,029	(818,735)	-	-	-	6,337,623
392-02	Vehicles from 1/2 - 1 Tons	14.8	4,834,636	1,046,791	(565,575)	-	-	-	5,315,853
392-03	Airplane	1.9	-	-	-	-	-	-	-
392-04	Trailers & Other	4.1	268,252	2,115	-	-	-	-	270,367
392-05	Vehicles over 1 Ton	9.9	1,231,907	8,912	(85,721)	-	-	-	1,155,098
393-00	Stores Equipment	1.8	48,913	-	-	-	-	-	48,913
394-00	Tools, Shop & Garage Equip	6.0	3,674,433	185,463	(46,371)	-	-	-	3,813,524
395-00	Laboratory Equipment	5.2	46,445	-	-	-	-	-	46,445
396-00	Power Operated Equipment	5.2	1,725,152	204,758	(83,274)	-	-	-	1,846,636
397-00	Communication Equipment	11.4	5,543,601	277,969	-	-	-	-	5,821,570
398-00	Miscellaneous Equipment	4.3	443,996	7,923	-	-	-	-	451,918

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

For the Year Ended December 31, 2010

Acct. No.	Account Description	Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)									
Capital Recovery Schedules:									
Total Account 101 and 106 *			1,011,935,192	51,090,577	(7,706,474)	-	-	-	1,055,319,294
105-00	Property Held for Future Use		228,955	-	-	-	-	-	228,955
114-00	Acquisition Adjustment		5,248,671	-	-	-	-	-	5,248,671
	Subtotal		5,477,626	-	-	-	-	-	5,477,626
Total Utility Plant **			1,017,412,817	51,090,577	(7,706,474)	-	-	-	1,060,796,920

Note: * The total beginning and ending balances must agree to account 101 and 106, Plant in Service, Line 3 and Line 6, Page 12.

Note: ** The total beginning and ending balances must agree to Line 11, Page 12.

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

For the Year Ended December 31, 2010

Acct. No.	Account Description	Beginning Balance*	Accruals	Retirements	Gross Salvage	Cost of Removal	Reclass.	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:										
301-00	Organization	3,116	-	-	-	-	-	-	-	3,116
302-00	Franchise & Consents	412,285	3,743	-	-	-	-	-	-	416,027
303-00	Misc Intangible Plant	518,329	32,613	-	-	-	-	-	-	550,942
303-01	Custom Intangible Plant	12,669,234	1,168,677	(6,946)	-	-	-	-	-	13,830,965
374-02	Land Rights	1,100,553	53,073	-	-	-	-	-	-	1,153,625
390-02	Structures & Improve Leases	(7,178)	3,795	-	-	-	-	-	-	(3,383)
	Subtotal 108 - 404 *	14,696,338	1,261,901	(6,946)	-	-	-	-	-	15,951,293
Items necessary to reconcile the total amortization accrual amount to Acct. 404.3, Amortization Expense, shown on Line 7, Page 8.										
Depreciable Assets:										
374-00	Land Distribution	-	-	-	-	-	-	-	-	-
375-00	Structures & Improvements	4,484,544	488,487	(1,000)	-	(705)	-	-	-	4,971,326
376-00	Mains Steel	159,429,461	12,075,931	(1,634,371)	-	(626,270)	-	-	-	169,244,751
376-02	Mains Plastic	77,883,426	8,042,323	(262,591)	-	(187,338)	-	-	-	85,475,819
378-00	Meas & Reg Station Eqp Gen	1,831,873	206,990	(15,679)	-	(937)	-	-	-	2,022,247
379-00	Meas & Reg Station Eqp City	3,539,600	609,313	(20,727)	-	-	-	-	-	4,128,185
380-00	Services Steel	38,733,176	3,131,667	(112,304)	2,365	(381,369)	-	-	-	41,373,535
380-02	Services Plastic	74,569,863	9,310,541	(287,525)	800	(135,765)	-	-	-	83,457,914
381-00	Meters	12,558,823	2,762,285	(1,277,694)	96,854	(24,821)	-	-	-	14,115,447
382-00	Meter Installations	14,858,114	1,967,001	(296,704)	-	(93,364)	-	-	-	16,435,047
383-00	House Regulators	4,809,746	397,325	(41,037)	759	-	-	-	-	5,166,793
384-00	House Regulator Installs	5,146,360	789,066	(162,024)	-	(41,965)	-	-	-	5,731,437
385-00	Meas & Reg Station Eqp Ind	4,285,173	324,462	(43,836)	-	(825)	-	-	-	4,564,974
387-00	Other Equipment	1,309,419	189,929	(26,324)	-	-	-	-	-	1,473,024
390-00	Structures & Improvements	43,027	278	-	-	-	-	-	-	43,305
391-00	Office Furniture	1,595,587	218,149	(131,339)	-	-	-	-	-	1,682,397
391-01	Computer Equipment	7,581,391	695,934	(1,776,939)	1,620	-	-	-	-	6,502,006
391-02	Office Equipment	197,555	36,580	(9,757)	405	-	-	-	-	224,784
392-01	Vehicles up to 1/2 Tons	2,821,811	658,798	(818,735)	71,765	-	-	-	-	2,733,639
392-02	Vehicles from 1/2 - 1 Tons	2,533,046	777,127	(565,575)	39,866	-	-	-	-	2,784,465
392-03	Airplane	(3,512,118)	-	-	-	-	-	-	-	(3,512,118)
392-04	Trailers & Other	154,997	11,071	-	-	-	-	-	-	166,067
392-05	Vehicles over 1 Ton	614,420	122,326	(85,721)	3,950	-	-	-	-	654,975
393-00	Stores Equipment	47,978	880	-	-	-	-	-	-	48,858
394-00	Tools, Shop & Garage Equip	2,705,278	223,334	(46,371)	-	-	-	-	-	2,882,241
395-00	Laboratory Equipment	(16,783)	672	-	-	-	-	-	-	(16,111)
396-00	Power Operated Equipment	1,399,627	89,033	(83,274)	3,500	-	-	-	-	1,408,887
397-00	Communication Equipment	3,279,610	658,636	-	-	-	-	-	-	3,938,246
398-00	Miscellaneous Equipment	289,871	19,266	-	-	-	-	-	-	309,138

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

For the Year Ended December 31, 2010

Acct. No.	Account Description	Beginning Balance*	Accruals	Retirements	Gross Salvage	Cost of Removal	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)										
107-800	Retirement Works in Progress	(1,497,431)			(2,030)	(1,446,969)	-	-	-	(2,946,431)
Capital Recovery Schedules:										
	Subtotal 108 - 403 *	421,677,445	43,807,403	(7,699,528)	219,854	(2,940,328)	-	-	-	455,064,845
Items necessary to reconcile the total depreciation and amortization accrual amount to Acct. 403, Depreciation Expense, shown on Line 6, Page 8.										
105-00	Property Held for Future Use	-	-	-	-	-	-	-	-	-
115-00	Acquisition Adjustment	3,580,610	149,146	-	-	-	-	-	-	3,729,756
	Subtotal	3,580,610	149,146	-	-	-	-	-	-	3,729,756
Total Accumulated Reserve **		439,954,393	45,218,450	(7,706,474)	219,854	(2,940,328)	-	-	-	474,745,894

Per rule 25-7.045(9) , there has been no change of plans or utility experience requiring a change of rates, amortization or capital recovery schedule.

Note: * The total beginning and ending balances must agree to account 108 Depreciation, Line 17, Page 12.

Note: ** The total beginning and ending balances must agree to Line 32, Page 12.

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

BUDGET 2011

Acct. No.	Account Description	Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:									
301-00	Organization	0.0	12,620	-	-	-	-	-	12,620
302-00	Franchise & Consents	4.0	427,466	-	-	-	-	-	427,466
303-00	Misc Intangible Plant	4.0	815,325	-	-	-	-	-	815,325
303-01	Custom Intangible Plant	6.7	18,414,205	-	-	-	-	-	18,414,205
374-02	Land Rights	3.1	2,571,921	5,000	(552)	-	-	-	2,576,369
390-02	Structures & Improve Leases	2.9	70,976	-	-	-	-	-	70,976
	Subtotal		22,312,512	5,000	(552)	-	-	-	22,316,961
Depreciable Assets:									
374-00	Land Distribution	0.0	3,297,699	-	-	-	-	-	3,297,699
375-00	Structures & Improvements	2.8	18,333,848	110,000	(12,120)	-	-	-	18,431,728
376-00	Mains Steel	4.0	307,838,952	7,055,900	(776,170)	-	-	-	314,118,682
376-02	Mains Plastic	2.9	287,758,182	24,933,472	(2,742,682)	-	-	-	309,948,972
378-00	Meas & Reg Station Eqp Gen	3.3	6,439,250	2,455,000	(270,048)	-	-	-	8,624,202
379-00	Meas & Reg Station Eqp City	3.4	18,849,587	-	-	-	-	-	18,849,587
380-00	Services Steel	8.0	39,767,546	634,209	(69,764)	-	-	-	40,331,991
380-02	Services Plastic	5.1	187,984,485	7,620,151	(838,212)	-	-	-	194,766,424
381-00	Meters	6.6	45,971,985	2,372,221	(660,944)	-	-	-	47,683,261
382-00	Meter Installations	5.0	40,274,928	2,152,463	(236,779)	-	-	-	42,190,612
383-00	House Regulators	3.5	11,639,291	647,518	(71,233)	-	-	-	12,215,576
384-00	House Regulator Installs	5.1	15,757,473	717,487	(78,917)	-	-	-	16,396,044
385-00	Meas & Reg Station Eqp Ind	3.4	9,516,717	11,500	(1,272)	-	-	-	9,526,945
387-00	Other Equipment	5.7	3,600,810	90,000	(9,897)	-	-	-	3,680,913
390-00	Structures & Improvements	2.9	9,582	-	-	-	-	-	9,582
391-00	Office Furniture	7.6	2,776,694	5,760,361	(633,648)	-	-	-	7,903,408
391-01	Computer Equipment	7.2	7,551,267	-	-	-	-	-	7,551,267
391-02	Office Equipment	7.0	530,536	-	-	-	-	-	530,536
392-01	Vehicles up to 1/2 Tons	10.6	6,337,623	1,760,000	-	-	-	-	8,097,623
392-02	Vehicles from 1/2 - 1 Tons	14.8	5,315,853	-	-	-	-	-	5,315,853
392-03	Airplane	1.9	-	-	-	-	-	-	-
392-04	Trailers & Other	4.1	270,367	-	-	-	-	-	270,367
392-05	Vehicles over 1 Ton	9.9	1,155,098	-	-	-	-	-	1,155,098
393-00	Stores Equipment	1.8	48,913	-	-	-	-	-	48,913
394-00	Tools, Shop & Garage Equip	6.0	3,813,524	1,100,250	(121,013)	-	-	-	4,792,761
395-00	Laboratory Equipment	5.2	46,445	-	-	-	-	-	46,445
396-00	Power Operated Equipment	5.2	1,846,636	182,700	(20,098)	-	-	-	2,009,238
397-00	Communication Equipment	11.4	5,821,570	629,831	-	-	-	-	6,451,401
398-00	Miscellaneous Equipment	4.3	451,918	-	-	-	-	-	451,918

Annual Status Report
Analysis of Plant in Service Accounts

Company: Peoples Gas System

BUDGET 2011

Acct. No.	Account Description	Depr. Rate	Beginning Balance*	Additions	Retirements	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)									
Capital Recovery Schedules:									
Total Account 101 and 106 *			1,055,319,294	58,238,062	(6,543,349)	-	-	-	1,107,014,007
105-00	Property Held for Future Use		228,955	-	-	-	-	-	228,955
114-00	Acquisition Adjustment		5,248,671	-	-	-	-	-	5,248,671
	Subtotal		5,477,626	-	-	-	-	-	5,477,626
Total Utility Plant **			1,060,796,920	58,238,062	(6,543,349)	-	-	-	1,112,491,633

Note: * The total beginning and ending balances must agree to account 101 and 106, Plant in Service, Line 3 and Line 6, Page 12.

Note: ** The total beginning and ending balances must agree to Line 11, Page 12.

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

BUDGET 2011

Acct. No.	Account Description	Beginning Balance*	Accruals	Retirements	Gross Salvage	Cost of Removal	Reclass.	Adjustments	Transfers	Ending Balance*
Amortizable General Plant Assets:										
301-00	Organization	3,116	-	-	-	-	-	-	-	3,116
302-00	Franchise & Consents	416,027	17,099	-	-	-	-	-	-	433,126
303-00	Misc Intangible Plant	550,942	32,613	-	-	-	-	-	-	583,555
303-01	Custom Intangible Plant	13,830,965	1,227,620	-	-	-	-	-	-	15,058,585
374-02	Land Rights	1,153,625	79,818	(552)	-	-	-	-	-	1,232,891
390-02	Structures & Improve Leases	(3,383)	2,058	-	-	-	-	-	-	(1,325)
	Subtotal 108 - 404 *	15,951,293	1,359,208	(552)	-	-	-	-	-	17,309,948
Items necessary to reconcile the total amortization accrual amount to Acct. 404.3, Amortization Expense, shown on Line 7, Page 8.										
Depreciable Assets:										
374-00	Land Distribution	-	-	-	-	-	-	-	-	-
375-00	Structures & Improvements	4,971,326	514,604	(12,120)	-	-	-	-	-	5,473,810
376-00	Mains Steel	168,140,602	12,428,804	(776,170)	-	(319,260)	-	-	-	179,473,976
376-02	Mains Plastic	84,490,386	8,521,441	(2,742,682)	-	(619,740)	-	-	-	89,649,405
378-00	Meas & Reg Station Eqp Gen	2,022,247	245,543	(270,048)	-	-	-	-	-	1,997,742
379-00	Meas & Reg Station Eqp City	4,128,185	640,886	-	-	-	-	-	-	4,769,071
380-00	Services Steel	41,194,703	3,202,184	(69,764)	-	(761,000)	-	-	-	43,566,123
380-02	Services Plastic	82,772,521	9,745,420	(838,212)	-	-	-	-	-	91,679,729
381-00	Meters	14,115,447	3,073,944	(660,944)	-	-	-	-	-	16,528,447
382-00	Meter Installations	16,435,047	2,057,945	(236,779)	-	(300,000)	-	-	-	17,956,213
383-00	House Regulators	5,166,793	416,639	(71,233)	-	-	-	-	-	5,512,199
384-00	House Regulator Installs	5,731,437	818,659	(78,917)	-	(100,000)	-	-	-	6,371,179
385-00	Meas & Reg Station Eqp Ind	4,564,974	323,728	(1,272)	-	-	-	-	-	4,887,430
387-00	Other Equipment	1,473,024	207,339	(9,897)	-	-	-	-	-	1,670,466
390-00	Structures & Improvements	43,305	278	-	-	-	-	-	-	43,583
391-00	Office Furniture	1,682,397	389,602	(633,648)	-	-	-	-	-	1,438,351
391-01	Computer Equipment	6,502,006	543,691	-	-	-	-	-	-	7,045,697
391-02	Office Equipment	224,784	37,138	-	-	-	-	-	-	261,921
392-01	Vehicles up to 1/2 Tons	2,738,075	789,751	-	-	-	-	-	-	3,527,826
392-02	Vehicles from 1/2 - 1 Tons	2,787,404	786,746	-	-	-	-	-	-	3,574,150
392-03	Airplane	(3,512,118)	-	-	-	-	-	-	-	(3,512,118)
392-04	Trailers & Other	166,067	11,085	-	-	-	-	-	-	177,152
392-05	Vehicles over 1 Ton	654,975	114,355	-	-	-	-	-	-	769,330
393-00	Stores Equipment	48,858	880	-	-	-	-	-	-	49,739
394-00	Tools, Shop & Garage Equip	2,882,241	255,632	(121,013)	-	-	-	-	-	3,016,859
395-00	Laboratory Equipment	(16,111)	2,415	-	-	-	-	-	-	(13,696)
396-00	Power Operated Equipment	1,408,887	99,874	(20,098)	-	-	-	-	-	1,488,663
397-00	Communication Equipment	3,938,246	696,568	-	-	-	-	-	-	4,634,813
398-00	Miscellaneous Equipment	309,138	19,432	-	-	-	-	-	-	328,570

Annual Status Report
Analysis of Entries in Accumulated Depreciation & Amortization

Company: Peoples Gas System

BUDGET 2011

Acct. No.	Account Description	Beginning Balance*	Accruals	Retirements	Gross Salvage	Cost of Removal	Reclass.	Adjustments	Transfers	Ending Balance*
(Continued)										
107-800	Retirement Works in Progress	-	-	-	-	-	-	-	-	-
Capital Recovery Schedules:										
	Subtotal 108 - 403 *	455,064,845	45,944,582	(6,542,797)	-	(2,100,000)	-	-	-	492,366,629
Items necessary to reconcile the total depreciation and amortization accrual amount to Acct. 403, Depreciation Expense, shown on Line 6, Page 8.										
105-00	Property Held for Future Use	-	-	-	-	-	-	-	-	-
115-00	Acquisition Adjustment	3,729,756	149,146					-	-	3,878,902
	Subtotal	3,729,756	149,146	-	-	-	-	-	-	3,878,902
Total Accumulated Reserve **		474,745,894	47,452,935	(6,543,349)	-	(2,100,000)	-	-	-	513,555,480

Per rule 25-7.045(9) , there has been no change of plans or utility experience requiring a change of rates, amortization or capital recovery schedule.

Note: * The total beginning and ending balances must agree to account 108 Depreciation, Line 17, Page 12.

Note: ** The total beginning and ending balances must agree to Line 32, Page 12.

PEOPLES GAS SYSTEM
2011 DEPRECIATION STUDY
FILED: JULY 20, 2011