

State of Florida



Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD
TALLAHASSEE, FLORIDA 32399-0850

-M-E-M-O-R-A-N-D-U-M-

DATE: August 9, 2013
TO: Ann Cole, Commission Clerk, Office of Commission Clerk
FROM: Devlin Higgins, Public Utility Analyst III, Division of Economics
RE: 130151-EI - Petition for approval of 2013 Depreciation Study and Dismantlement Studies by Gulf Power Company.

Would you be so kind as to add the attached data request responses, titled Gulf Power Company's clarifications to Staff's First and Second Data Requests, in the above docket file. Thank you very much.

RECEIVED FPSC
13 AUG -9 AM 8:16
COMMISSION
CLERK

Robert L. McGee, Jr.
Regulatory & Pricing Manager

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July 25, 2013

Mr. Devlin Higgins
Division of Economics
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0850

RE: Docket No: 130151-EI – Clarification on Responses to Staff's first and second data request

Dear Mr. Higgins:

Enclosed is Gulf Power Company's response to Staff's request for Clarification on Gulf's previous responses to Staff's first and second data request in the above referenced docket.

Sincerely,

A handwritten signature in cursive script that reads "Robert L. McGee, Jr.".

Robert L. McGee, Jr,
Regulatory and Pricing Manager

md

Enclosures

Cc: Beggs & Lane
Jeffrey A. Stone

Staff's First Data Request

1. Please refer to Staff's First Data Request, No. 2. Does Gulf use average or future net salvage in calculating its Whole Life Rates? Please show (all calculation steps) Gulf's Whole Life Rate calculation for Christ Account 311, Structures and Improvements.

ANSWER:

Gulf's recommended rates are based on the Remaining Life Method. The rates developed under the Whole Life Method were made simply to allow for a general comparison. Future net removal, as a proxy for average net removal, was used in the developed Whole Life Method rates.

Crist 311 Calculation

Whole Life Rate = $\frac{((\text{Plant Balance} + \text{IRR Net Removal Excl. Dismantling Amount}) / \text{ASL})}{\text{Plant Balance}}$

$$((122,456,878 + 1,875,121) / 36.4) / 122,456,878 = 2.8\%$$

2. Please refer to Gulf's response to staff's Item No. 5 (reserve transfers) and Tab 7.
 - a. Should the Commission deem reserve transfers desirable, does Gulf believe that reserve transfers for production may be made within the function or should be made within the site? Please explain your reasoning.
 - b. Should the Commission deem reserve transfers desirable, for the transmission, distribution, and general accounts, does Gulf believe reserve transfers should be made within each function or is it appropriate to make transfers across functions? Please explain your reasoning.

ANSWER:

- a. In Gulf's last depreciation study, the Commission approved in Order No. PSC-10-04588-PAA-EI reserve transfers for production made within the production function between sites. Gulf's concern centers on the issues of cross-subsidization and cost of service. The Company recommends that any adjustment for over/under recovery of depreciation expense be made through the remaining life rates which are significantly impacted by reserve balances. Should the Commission determine that a reserve transfer is appropriate, Gulf would prefer that reserve transfers first utilize any site level balances if available prior to using any functional reserve balance transfers. Gulf does not believe transfers should be done across functional levels.
- b. See Gulf's response to Item 2a.

3. Please refer to the formula in Gulf's response to staff's Item No. 14. The adjusted remaining life formula shown is: $(1 - (IRR \times RL) / 2) \times RL$. Does dividing by 2 represent the half-year convention? If not, please explain.

ANSWER:

No. The IRR calculation includes finding the area under the life curve due to the IRR, which, being a triangle, requires the product to be divided by two.

4. Please refer to Gulf's response to staff's Item No. 15 concerning interim retirement rates (IRR). In this response Gulf provided the data, calculations, and analysis notes for the development of Gulf's IRR for the steam accounts. Please provide the same information for the other production (CT and CC) accounts. If this information is not available, please explain with specificity how Gulf developed the IRR for these accounts.

ANSWER:

See Attachment A.

5. (*As discussed over the telephone) Please refer to Staff's First Data Request, No. 40. The following questions pertain to the Average age years:
- a. Please explain in details how Gulf determined the Average age year for an account. Please provide work papers that support the explanation, using an example of Account 353, Transmission Station Equipment.
 - b. Did Gulf use the same method, as discussed in 1a, to compute the age that used in calculating the average remaining life (ARL) for its Depreciation Study? If not, please specify how Gulf determined the age that used in calculating the ARL for an account, and provide work papers that support the response.
 - c. Please explain in details how the Average age years, listed in column "Gulf Company Proposed" on pages 2-8 of Gulf's response to No. 40 of Staff's First Data request, were calculated.
 - d. Taking an example of Account 353, Transmission Station Equipment. In Volume 2 of Gulf's Depreciation Study the Company determined that the weighted average age was 12.3 years through the analysis of 16-year band, 30-year band, 50-year band, and 87-year-band. However, in its response to No. 40 of the data request, Gulf proposed the Average age year of the account is 9. Please provide the rationale for the election of 9 as the average year of the account.

ANSWER:

- a. In answering Staff's First Data Request, No. 40, Gulf computed the average age by subtracting the Average Remaining Life (ARL) from the Average Service Life (ASL). 353 ASL 45 minus ARL 36.2 = average age 9.
- b. No. Average Age was not used to calculate the ARL. Average Age is calculated by directly weighting age by vintage investment. In the case of Account 353, for example, the calculation is made in the "Average Remaining Life and Age Calc" calculation work sheet shown in Volume 2. In the excel file, (see attachment B) the weighted age calculation is made using columns Aged Investment times the Age. The total Weighted Age divided by Aged Investments yields 12.3 years.

The ARL of T&D and General was developed from the ARL derived at each vintage from the recommended lowa curve and ASL, directly weighted by the life weight (investment/ASL). In the case of Account 353, for example, the calculation is made in the "Average Remaining Life and Age Calc" shown in Volume 2. The ARL result is 36.2 (rounded).

$$\text{ARL} = \text{Weighted Rem Life} / \text{Life Weight (Sum of all Vintages)}$$
$$119,622,046 / 3,304,000 = 36.2$$

$$\text{Life Weight} = \text{Aged investment} / \text{Average Service Life}$$
$$2013 \text{ Vintage Life Weight} = 7,194,512 / 45 \text{ years} = 159,878$$

$$\text{Weighted Rem Life} = \text{Life Weight} * \text{Remaining Life Years}$$
$$2013 \text{ Vintage Weighted Rem Life} = 44.559 * 159,878 = 7,124,063$$

- c. See answer to Item 5a.
- d. Gulf's response to Item 40 was an inadvertent calculation of ASL minus ARL. The correct input to the table is the weighted average age found in Volume 2 of Gulf's depreciation study. See pages 3 through 9 for a revised answer for Item 40 with the weighted average age updated in the table.

Staff's First & Second Data
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Account No.	Account Name	Parameters	Gulf Power Company		
			09-13 Current Approved	Company Proposed	Industry Range Gulf Referred to
350	Easements	Depreciation Rate	1.6%	1.6%	
		ASL	60	65	50-70
		ARL	34.0	31.6	
		Net Salvage	0%	0%	
		Average age Years	31.5	34.0	
		Curve type	SQ	R5	
		Reserve Ratio	46.63%	50.97%	
352	Structures and Improvements	Depreciation Rate	2.0%	1.8%	
		ASL	50	55	45-65
		ARL	36.0	40.2	
		Net Salvage	5%	5%	
		Average age Years	15.0	15.3	
		Curve type	R4	R4	
		Reserve Ratio	32.90%	33.58%	
353	Station Equipment	Depreciation Rate	2.3%	2.4%	
		ASL	45	45	40-55
		ARL	35.0	36.2	
		Net Salvage	5%	7%	
		Average age Years	14	12.3	
		Curve type	S0	S0	
		Reserve Ratio	24.56%	20.42%	
354	Towers and Fixtures	Depreciation Rate	2.3%	1.8%	
		ASL	50	55	50-60
		ARL	27.0	31.2	
		Net Salvage	20%	20%	
		Average age Years	23.3	25.3	
		Curve type	R5	R4	
		Reserve Ratio	58.49%	63.18%	

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Account No.	Account Name	Parameters	Gulf Power Company		
			09-13 Current Approved	Company Proposed	Industry Range Gulf Referred to
355	Poles and Fixtures	Depreciation Rate	3.6%	3.9%	
		ASL	38	40	35-45
		ARL	30.0	33.2	
		Net Salvage	40%	50%	
		Average age Years	10.6	9.4	
		Curve type	S0	S0	
		Reserve Ratio	31.70%	20.55%	
356	Overhead Conductor & Devices	Depreciation Rate	2.5%	2.5%	
		ASL	50	50	40-50
		ARL	37.0	41.8	
		Net Salvage	30%	30%	
		Average age Years	15.7	11.0	
		Curve type	R2	R1.5	
		Reserve Ratio	35.77%	23.78%	
358	Underground Conductor & Devices	Depreciation Rate	2.1%	1.8%	
		ASL	45	50	50-55
		ARL	26.0	26.3	
		Net Salvage	0%	0%	
		Average age Years	20.3	24.3	
		Curve type	R3	R4	
		Reserve Ratio	45.05%	53.43%	
359	Roads and Trails	Depreciation Rate	2.0%	1.9%	
		ASL	50	55	50-65
		ARL	27.0	45.0	
		Net Salvage	0%	0%	
		Average age Years	28	10.2	
		Curve type	SQ	SQ	
		Reserve Ratio	47.04%	16.02%	

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Account No.	Account Name	Parameters	Gulf Power Company		
			09-13 Current Approved	Company Proposed	Industry Range Gulf Referred to
360.2	Land Rights	Depreciation Rate	1.8%	1.8%	
		ASL	50	55	50-60
		ARL	52.0	52.2	
		Net Salvage	0%	0%	
		Average age Years	2.8	2.8	
		Curve type	SQ	SQ	
		Reserve Ratio	6.20%	5.25%	
361	Structures and Improvements	Depreciation Rate	2.2%	1.9%	
		ASL	48	52	45-55
		ARL	32.0	36.5	
		Net Salvage	5%	5%	
		Average age Years	17.6	17.0	
		Curve type	R3	R3	
		Reserve Ratio	35.61%	37.17%	
362	Station Equipment	Depreciation Rate	2.2%	2.3%	
		ASL	45	46	35-50
		ARL	33.0	36.2	
		Net Salvage	5%	8%	
		Average age Years	16.2	13.1	
		Curve type	R1.5	R1.5	
		Reserve Ratio	31.20%	25.17%	
364	Poles, Towers and Fixtures	Depreciation Rate	5.0%	4.7%	
		ASL	34	32	30-40
		ARL	24.0	25.0	
		Net Salvage	75%	70%	
		Average age Years	14.5	14.3	
		Curve type	R1	L0	
		Reserve Ratio	54.44%	51.92%	

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Account No.	Account Name	Parameters	Gulf Power Company		
			09-13 Current Approved	Company Proposed	Industry Range Gulf Referred to
365	Overhead Conductors & Devices	Depreciation Rate	3.1%	3.2%	
		ASL	38	40	30-45
		ARL	27.0	28.1	
		Net Salvage	20%	25%	
		Average age Years	16.1	17.7	
		Curve type	R1	R1	
		Reserve Ratio	35.73%	36.22%	
366	Underground Conduit	Depreciation Rate	1.3%	1.2%	
		ASL	60	60	50-60
		ARL	27.0	26.3	
		Net Salvage	0%	0%	
		Average age Years	35.9	38.8	
		Curve type	R3	R3	
		Reserve Ratio	64.70%	68.37%	
367	Underground Conductors & Devices	Depreciation Rate	3.3%	3.1%	
		ASL	32	34	30-40
		ARL	23.0	24.0	
		Net Salvage	8%	10%	
		Average age Years	9.5	10.9	
		Curve type	S3	S2	
		Reserve Ratio	32.57%	35.56%	
368	Line Transformers	Depreciation Rate	4.0%	3.8%	
		ASL	30	32	30-40
		ARL	21.0	23.1	
		Net Salvage	20%	24%	
		Average age Years	13.0	13.1	
		Curve type	S0	S0	
		Reserve Ratio	36.00%	36.68%	

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Account No.	Account Name	Parameters	Gulf Power Company		
			09-13 Current Approved	Company Proposed	Industry Range Gulf Referred to
369.1	Overhead Services	Depreciation Rate	3.8%	3.4%	
		ASL	35	40	35-45
		ARL	24.0	27.2	
		Net Salvage	45%	55%	
		Average age Years	16.7	19.1	
		Curve type	R1	R1	
		Reserve Ratio	53.72%	62.05%	
369.2	Underground Services	Depreciation Rate	2.6%	2.2%	
		ASL	40	44	35-45
		ARL	31.0	33.0	
		Net Salvage	10%	10%	
		Average age Years	11.5	14.3	
		Curve type	R1	R1.5	
		Reserve Ratio	30.13%	36.61%	
370	Meters	Depreciation Rate	2.7%	2.6%	
		ASL	33	33	20-35
		ARL	25.0	23.0	
		Net Salvage	-10%	-10%	
		Average age Years	11.2	16.6	
		Curve type	R1	R1	
		Reserve Ratio	22.50%	29.51%	
370	Meters - AMI	Depreciation Rate	6.7%	7.7%	
		ASL	15	15	15-20
		ARL	15.0	12.3	
		Net Salvage	0%	0%	
		Average age Years	0	3	
		Curve type	R1	R1	
		Reserve Ratio	0.00%	5.91%	

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Account No.	Account Name	Parameters	Gulf Power Company		
			09-13 Current Approved	Company Proposed	Industry Range Gulf Referred to
373	Street Lighting & Signal System	Depreciation Rate	5.0%	4.4%	
		ASL	20	22	15-25
		ARL	13.8	14.6	
		Net Salvage	10%	15%	
		Average age Years	9.7	11.8	
		Curve type	L1	L1	
		Reserve Ratio	40.80%	50.68%	
390	Structures and Improvements	Depreciation Rate	2.3%	2.4%	
		ASL	45	45	40-50
		ARL	30.0	29.7	
		Net Salvage	5%	5%	
		Average age Years	17.7	18.0	
		Curve type	S1.5	S1.5	
		Reserve Ratio	34.70%	34.75%	
392.2	Light Trucks	Depreciation Rate	9.3%	13.8%	
		ASL	10	11	5-10
		ARL	4.5	3.5	
		Net Salvage	-12%	-5%	
		Average age Years	7.0	9.2	
		Curve type	S3	L4	
		Reserve Ratio	46.17%	47.24%	
392.3	Heavy Trucks	Depreciation Rate	7.9%	7.4%	
		ASL	11	12	8-12
		ARL	5.1	4.3	
		Net Salvage	-15%	-13%	
		Average age Years	6.4	8.9	
		Curve type	L4	L4	
		Reserve Ratio	44.66%	55.32%	

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Account No.	Account Name	Parameters	Gulf Power Company		
			09-13 Current Approved	Company Proposed	Industry Range Gulf Referred to
392.4	Trailers	Depreciation Rate	4.8%	4.6%	
		ASL	18	20	10-20
		ARL	6.8	8.9	
		Net Salvage	-12%	-9%	
		Average age Years	15.6	15.1	
		Curve type	S1.5	S1.5	
		Reserve Ratio	55.32%	49.95%	
396	Power Operated Equipment	Depreciation Rate	4.7%	3.0%	
		ASL	15	17	10-20
		ARL	3.7	6.8	
		Net Salvage	-20%	-20%	
		Average age Years	12.1	11.8	
		Curve type	R5	R4	
		Reserve Ratio	62.66%	59.35%	
397	Communication Equipment	Depreciation Rate	6.3%	4.7%	
		ASL	16	17	15-20
		ARL	9.0	10.4	
		Net Salvage	0%	0%	
		Average age Years	9.7	10.4	
		Curve type	S1	R1	
		Reserve Ratio	43.30%	50.97%	

Dismantlement

6. (*As discussed over the telephone) Please refer to Staff's First Data Request, No. 53. Please expand this response to include adjusted and unadjusted scrap metal values used in Gulf's 2013 Depreciation Study.

ANSWER:

2009 Dismantlement Study	Adjusted	Unadjusted
Copper	\$0.97 / Lb.	\$1.56 / Lb.
Ferrous	\$149 / Ton	\$213 / Ton
Non-Ferrous	\$0.198 / Lb.	\$0.240 / Lb.

2013 Dismantlement Study	Adjusted	Unadjusted
Copper	\$2.418 / Lb.	\$4.03 / Lb.
Ferrous	\$287.05 / Ton	\$410.08 / Ton
Non-Ferrous (Aluminum)	\$0.636 / Lb.	\$0.79 / Lb.
Stainless Steel	\$1,251.53 / Ton	\$1,787.90 / Ton

7. Please refer to Staff's First Data Request, No. 57. Is Staff correct that with the exception of the Perdido Plant, Average Service Lives of all Gulf's other plants are the same as in its 2009 Dismantlement Study?

ANSWER:

Yes, except for Plant Scholz.

8. Please refer to Staff's First Data Request, No. 64 (c.). Is staff correct that no third-party (i.e. R.S. Means or other) estimate was used in development of labor rates presented in Gulf's 2013 Dismantlement Study?

ANSWER:

Yes.

Staff's Second Data Request

9. For the year 2012, please confirm that Gulf's accumulated provision for depreciation is the same as contained in its FERC form 1, filed with the Commission in May of 2013. Please address differences, if any.

ANSWER:

Gulf's tab 11 for actual 2012 does not match the FERC Form 1 due to several adjusting transactions made by Gulf for financial reporting purposes. The primary difference is a result of the reversal of several December 2012 retirements that were made in error to distribution work orders. The errors were found and adjusting transactions were made for financial reporting purposes. The appropriate correcting entries were made in Gulf's books in January 2013.

Reconciliation of 2012 Actual Tab 11 To 2012 FERC Form 1

2012 Actual Accumulated Provision from Depreciation Balance (Tab 11)	\$ 1,379,957,166
<u>Adjusting Transactions</u>	
Reversal of Distribution Retirement made in December, 2012.	1,515,589
Reclassification of a year-end transaction received after 2012 Plant closing.	(3,850)
Rounding (due to whole dollar and generation unit level reporting)	5
2012 FERC Form 1 Balance for Accumulated Depreciation and Amortization	<u>\$ 1,381,468,910</u>

Attachment A

GULF POWER COMPANY
OTHER PRODUCTION PLANT - SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
341	1981			0	0		
	1982			0	0		
	1983			0	0		
	1984			0	0		
	1985			0	0		
	1986			0	0		
	1987			0	0		
	1988			0	0		
	1989			0	0		
	1990			0	0		
	1991			0	0		
	1992			0	0		
	1993			0	0		
	1994			0	0		
	1995			0	0		
	1996			0	0		
	1997			0	0		
	1998			0	0		
	1999			0	0		
	2000			0	0		
	2001			0	0		
	2002	9,023,399	0	9,023,399	4,511,699	0.00%	
	2003		0	9,023,399	9,023,399	0.00%	
	2004		0	9,023,399	9,023,399	0.00%	
	2005	1,676,405	55,868	10,643,916	9,833,657	0.57%	
	2006	3,541	0	10,647,457	10,645,687	0.00%	
	2007	373,786	0	11,021,243	10,834,350	0.00%	
	2008	496,499	66,328	11,453,415	11,237,329	0.59%	
	2009	373,197	113,763	11,712,849	11,583,132	0.98%	
	2010	1,083,852	669,544	12,127,157	11,920,003	5.62%	
	2011	1,472,007	644,484	12,954,680	12,540,919	5.14%	
	2012	1,671,357	1,025,063	13,600,975	13,277,828	7.72%	
	2013	1,114,596	866,000	13,847,571	13,724,273	6.32%	
	Last 5 years		664,171		12,609,231	5.27%	5.16%
	Last 10 years		344,307		11,462,058	3.00%	2.69%
	Last 12 years		313,006		10,679,640	2.93%	2.25%
	All years						
					12-Yr w/o 2013	2.25%	Use 0.50%

High IRR, even w/o 2013. Expect IRR to decrease in future towards typical Ind as low as 0.10%. Give some wght to data indications.

GULF POWER COMPANY
OTHER PRODUCTION PLANT - SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
342	1981			0	0		
	1982			0	0		
	1983			0	0		
	1984			0	0		
	1985			0	0		
	1986			0	0		
	1987			0	0		
	1988			0	0		
	1989			0	0		
	1990			0	0		
	1991			0	0		
	1992			0	0		
	1993			0	0		
	1994			0	0		
	1995			0	0		
	1996			0	0		
	1997			0	0		
	1998			0	0		
	1999			0	0		
	2000			0	0		
	2001			0	0		
	2002	529,401	0	529,401	264,700	0.00%	
	2003		0	529,401	529,401	0.00%	
	2004		0	529,401	529,401	0.00%	
	2005	2,343,825	0	2,873,226	1,701,313	0.00%	
	2006	53,941	13,400	2,913,767	2,893,497	0.46%	
	2007	0	0	2,913,767	2,913,767	0.00%	
	2008	0	0	2,913,767	2,913,767	0.00%	
	2009	28,696	0	2,942,463	2,928,115	0.00%	
	2010	78,713	43,147	2,978,030	2,960,247	1.46%	
	2011	183,198	122,275	3,038,953	3,008,491	4.06%	
	2012	120,303	5,250	3,154,006	3,096,479	0.17%	
	2013	1,950,542	1,519,000	3,585,548	3,369,777	45.08%	
	Last 5 years		337,934		3,072,622	11.00%	10.15%
	Last 10 years		170,307		2,631,486	6.47%	5.12%
	Last 12 years		154,825		2,259,080	6.85%	4.27%
	All years						
					12-Yr w/o 2013	0.78%	Use 0.35%

0.78% IRR w/o 2013. Expect IRR to decrease in future towards typical Ind 0.30% or lower. Nature of property suggests less than the data indications.

GULF POWER COMPANY
OTHER PRODUCTION PLANT - SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
				(0)			
343	1981			(0)	(0)	0.00%	
	1982			(0)	(0)	0.00%	
	1983			(0)	(0)	0.00%	
	1984			(0)	(0)	0.00%	
	1985			(0)	(0)	0.00%	
	1986			(0)	(0)	0.00%	
	1987			(0)	(0)	0.00%	
	1988			(0)	(0)	0.00%	
	1989			(0)	(0)	0.00%	
	1990			(0)	(0)	0.00%	
	1991			(0)	(0)	0.00%	
	1992			(0)	(0)	0.00%	
	1993			(0)	(0)	0.00%	
	1994			(0)	(0)	0.00%	
	1995			(0)	(0)	0.00%	
	1996			(0)	(0)	0.00%	
	1997			(0)	(0)	0.00%	
	1998			(0)	(0)	0.00%	
	1999			(0)	(0)	0.00%	
	2000			(0)	(0)	0.00%	
	2001			(0)	(0)	0.00%	
	2002	109,519,929	0	109,519,929	54,759,965	0.00%	
	2003		0	109,519,929	109,519,929	0.00%	
	2004	1,372,714	2,911,960	107,980,683	108,750,306	2.68%	
	2005	4,211,422	17,544,211	94,647,894	101,314,289	17.32%	2005-2007 Ret are a breakdown at unit.
	2006	6,710,959	7,704,417	93,654,436	94,151,165	8.18%	
	2007	15,110,850	14,070,469	94,694,818	94,174,627	14.94%	
	2008		572,207	94,122,610	94,408,714	0.61%	
	2009		61,961	94,060,650	94,091,630	0.07%	
	2010	38,811,613	18,742,394	114,129,869	104,095,259	18.01%	
	2011	336,336	769,041	113,697,164	113,913,516	0.68%	
	2012	974,085	239,164	114,432,086	114,064,625	0.21%	
	2013	11,145,956	8,680,000	116,898,042	115,665,064	7.50%	
	Last 5 years		5,698,512		108,366,019	5.26%	5.29%
	Last 10 years		7,129,582		103,462,920	6.89%	7.02%
	Last 12 years		6,481,439		99,909,091	6.49%	3.51%
	All years						
				12-Yr w/o 2013 & 2005-07 Ret.		2.15%	Use 2.00%

2005-2007 Ret are a breakdown at unit.

2.15% IRR w/o 2013, as well as 2007-2007 (breakdown). While IRR data may lessen in future, likely rel high cuz of LTSA CT overhauls. 2% or so has been used by others in similar situation.

GULF POWER COMPANY
OTHER PRODUCTION PLANT - SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
344	1981			0	0	0.00%	
	1982			0	0	0.00%	
	1983			0	0	0.00%	
	1984			0	0	0.00%	
	1985			0	0	0.00%	
	1986			0	0	0.00%	
	1987			0	0	0.00%	
	1988			0	0	0.00%	
	1989			0	0	0.00%	
	1990			0	0	0.00%	
	1991			0	0	0.00%	
	1992			0	0	0.00%	
	1993			0	0	0.00%	
	1994			0	0	0.00%	
	1995			0	0	0.00%	
	1996			0	0	0.00%	
	1997			0	0	0.00%	
	1998			0	0	0.00%	
	1999			0	0	0.00%	
	2000			0	0	0.00%	
	2001			0	0	0.00%	
	2002	3,669,696	0	3,669,696	1,834,848	0.00%	
	2003	63,548,875	0	67,218,571	35,444,134	0.00%	
	2004		122,367	67,096,204	67,157,388	0.18%	
	2005		0	67,096,204	67,096,204	0.00%	
	2006	0	0	67,096,204	67,096,204	0.00%	
	2007	7,897	0	67,104,102	67,100,153	0.00%	
	2008	48,617	139,365	67,013,354	67,058,728	0.21%	
	2009	29,795	1,806	67,041,343	67,027,349	0.00%	
	2010	35,970	47,898	67,029,416	67,035,380	0.07%	
	2011	249,578	29,348	67,249,648	67,139,532	0.04%	
	2012	616,365	35,212	67,830,801	67,540,224	0.05%	
	2013	10,310,009	8,029,000	70,111,810	68,971,305	11.64%	
	Last 5 years		1,628,652		67,542,758	2.41%	2.36%
	Last 10 years		840,499		67,322,247	1.25%	1.22%
	Last 12 years		784,090		59,208,454	1.29%	0.61%
	All years						
					12-Yr w/o 2013	0.06%	Use 0.35%

Only 0.06% 12-yr IRR w/o 2013. Expect that rate to increase as age/hrs outages occur. Ind rate is typically >0.25% and more with LTSA. Subject is still immature, use typical Ind.

GULF POWER COMPANY
OTHER PRODUCTION PLANT - SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
				(0)			
345	1981			(0)	(0)	0.00%	
	1982			(0)	(0)	0.00%	
	1983			(0)	(0)	0.00%	
	1984			(0)	(0)	0.00%	
	1985			(0)	(0)	0.00%	
	1986			(0)	(0)	0.00%	
	1987			(0)	(0)	0.00%	
	1988			(0)	(0)	0.00%	
	1989			(0)	(0)	0.00%	
	1990			(0)	(0)	0.00%	
	1991			(0)	(0)	0.00%	
	1992			(0)	(0)	0.00%	
	1993			(0)	(0)	0.00%	
	1994			(0)	(0)	0.00%	
	1995			(0)	(0)	0.00%	
	1996			(0)	(0)	0.00%	
	1997			(0)	(0)	0.00%	
	1998			(0)	(0)	0.00%	
	1999			(0)	(0)	0.00%	
	2000			(0)	(0)	0.00%	
	2001			(0)	(0)	0.00%	
	2002	11,181,187	0	11,181,187	5,590,593	0.00%	
	2003	(314,390)	0	10,866,797	11,023,992	0.00%	
	2004	(236,859)	0	10,629,937	10,748,367	0.00%	
	2005	48,696	2,375	10,676,258	10,653,098	0.02%	
	2006	28,122	20,866	10,683,515	10,679,887	0.20%	
	2007	0	0	10,683,515	10,683,515	0.00%	
	2008	299,806	0	10,983,321	10,833,418	0.00%	
	2009	19,838	0	11,003,159	10,993,240	0.00%	
	2010	1,032,499	964,852	11,070,807	11,036,983	8.74%	
	2011	1,024,805	32,243	12,063,368	11,567,088	0.28%	
	2012	149,955	6,000	12,207,324	12,135,348	0.05%	
	2013	2,229,191	1,736,000	12,700,515	12,453,919	13.94%	
	Last 5 years		547,819		11,637,315	4.71%	4.60%
	Last 10 years		276,234		11,178,486	2.47%	2.32%
	Last 12 years		251,121		10,699,954	2.35%	1.16%
	All years						
					12-Yr w/o 2013	0.89%	Use 0.40%

A rel high 0.89% IRR even w/o 2013, primarily due to large ret in 2010. Expect IRR data to lessen in future. Ind is typically 0.30% or so. Consider both Ind and adjusted data in final.

GULF POWER COMPANY
OTHER PRODUCTION PLANT - SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
346	1981			0	0	0.00%	
	1982			0	0	0.00%	
	1983			0	0	0.00%	
	1984			0	0	0.00%	
	1985			0	0	0.00%	
	1986			0	0	0.00%	
	1987			0	0	0.00%	
	1988			0	0	0.00%	
	1989			0	0	0.00%	
	1990			0	0	0.00%	
	1991			0	0	0.00%	
	1992			0	0	0.00%	
	1993			0	0	0.00%	
	1994			0	0	0.00%	
	1995			0	0	0.00%	
	1996			0	0	0.00%	
	1997			0	0	0.00%	
	1998			0	0	0.00%	
	1999			0	0	0.00%	
	2000			0	0	0.00%	
	2001			0	0	0.00%	
	2002	232,094	0	232,094	116,047	0.00%	
	2003	255,089	0	487,164	359,629	0.00%	
	2004	17,522	0	504,686	495,925	0.00%	
	2005	201,241	0	705,927	605,306	0.00%	
	2006	0	0	705,927	705,927	0.00%	
	2007	0	0	705,927	705,927	0.00%	
	2008	4,878	0	710,804	708,365	0.00%	
	2009	0	0	710,804	710,804	0.00%	
	2010	561,233	187,274	1,084,763	897,784	20.86%	
	2011	29,163	0	1,113,927	1,099,345	0.00%	
	2012	100,262	38,797	1,175,392	1,144,659	3.39%	
	2013	1,114,598	868,000	1,421,987	1,298,690	66.84%	
	Last 5 years		218,814		1,030,256	21.24%	18.22%
	Last 10 years		109,407		837,273	13.07%	9.11%
	Last 12 years		99,461		737,367	13.49%	4.55%
	All years						
					12-Yr w/o 2013	2.99%	Use 0.75%

A very high indication of 0.89% IRR even w/o 2013, primarily due to large ret in 2010. Expect IRR data to lessen in future. Ind experience is varied, medium to rel high rates. Note 316's

GULF POWER COMPANY
OTHER PRODUCTION PLANT - EXCLUDING SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
				175,493			
341	1981	0	0	175,493	175,493	0.00%	
	1982	540,490	0	715,983	445,738	0.00%	
	1983	0	0	715,983	715,983	0.00%	
	1984	0	0	715,983	715,983	0.00%	
	1985	683	633	716,033	716,008	0.09%	
	1986	(5,664)	42,200	668,169	692,101	6.10%	
	1987	0	0	668,169	668,169	0.00%	
	1988	0	0	668,169	668,169	0.00%	
	1989	72,361	0	740,530	704,349	0.00%	
	1990	(43,585)	0	696,944	718,737	0.00%	
	1991	0	0	696,944	696,944	0.00%	
	1992	0	0	696,944	696,944	0.00%	
	1993	0	0	696,944	696,944	0.00%	
	1994	1,236	683	697,498	697,221	0.10%	
	1995	1,343	2,074	696,768	697,133	0.30%	
	1996	0	0	696,768	696,768	0.00%	
	1997	0	0	696,768	696,768	0.00%	
	1998	0	14,083	682,685	689,726	2.04%	
	1999	0	0	682,685	682,685	0.00%	
	2000	97,898	0	780,583	731,634	0.00%	
	2001	0	0	780,583	780,583	0.00%	
	2002	12,645	0	793,228	786,905	0.00%	
	2003	0	0	793,228	793,228	0.00%	
	2004	0	0	793,228	793,228	0.00%	
	2005	0	0	793,228	793,228	0.00%	
	2006	0	0	793,228	793,228	0.00%	
	2007	0	0	793,228	793,228	0.00%	
	2008	0	(135)	793,362	793,295	-0.02%	
	2009	0	0	793,362	793,362	0.00%	
	2010	0	0	793,362	793,362	0.00%	
	2011	2,096,175	653,170	2,236,367	1,514,865	43.12%	
	2012	16,312	0	2,252,679	2,244,523	0.00%	
	2013	1,861,400	0	4,114,079	3,183,379	0.00%	
	Last 5 years		130,634		1,705,898	7.66%	8.62%
	Last 10 years		65,304		1,249,570	5.23%	4.31%
	Last 20 years		33,494		987,417	3.39%	2.28%
	All years		21,597		850,300	2.54%	1.57%

Limited data. A large ret in 2011 results in very high IRR. Typical Ind is rel low, near zero. Base on typical w/some weight to data.
Use 0.15%

GULF POWER COMPANY
OTHER PRODUCTION PLANT - EXCLUDING SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
				240,602			
342	1981	0	0	240,602	240,602	0.00%	
	1982	0	0	240,602	240,602	0.00%	
	1983	0	0	240,602	240,602	0.00%	
	1984	0	0	240,602	240,602	0.00%	
	1985	0	0	240,602	240,602	0.00%	
	1986	0	0	240,602	240,602	0.00%	
	1987	0	0	240,602	240,602	0.00%	
	1988	0	0	240,602	240,602	0.00%	
	1989	0	0	240,602	240,602	0.00%	
	1990	0	0	240,602	240,602	0.00%	
	1991	0	7,923	232,679	236,641	3.35%	
	1992	7,923	0	240,602	236,641	0.00%	
	1993	17,917	13,446	245,073	242,836	5.54%	
	1994	38,200	0	283,274	264,173	0.00%	
	1995	0	0	283,274	283,274	0.00%	
	1996	0	0	283,274	283,274	0.00%	
	1997	0	0	283,274	283,274	0.00%	
	1998	0	0	283,274	283,274	0.00%	
	1999	0	0	283,274	283,274	0.00%	
	2000	0	0	283,274	283,274	0.00%	
	2001	0	0	283,274	283,274	0.00%	
	2002	0	0	283,274	283,274	0.00%	
	2003	0	0	283,274	283,274	0.00%	
	2004	0	0	283,274	283,274	0.00%	
	2005	0	0	283,274	283,274	0.00%	
	2006	0	0	283,274	283,274	0.00%	
	2007	212,250	0	495,523	389,398	0.00%	
	2008	17,492	0	513,015	504,269	0.00%	
	2009	0	0	513,015	513,015	0.00%	
	2010	0	0	513,015	513,015	0.00%	
	2011	876,432	84,571	1,304,876	908,946	9.30%	
	2012	(4,805)	23,444	1,276,628	1,290,752	1.82%	
	2013	317,800	0	1,594,428	1,435,528	0.00%	
	Last 5 years		21,603		932,251	2.32%	2.22%
	Last 10 years		10,801		640,474	1.69%	1.11%
	Last 20 years		5,401		460,919	1.17%	0.56%
	All years		3,921		373,955	1.05%	0.61%

Limited data. As is, suggests >0.5% to >1%. Typical Ind is lower than that, consistent with nature of the property. Base on typical w/some weight to data.
Use 0.30%

GULF POWER COMPANY
OTHER PRODUCTION PLANT - EXCLUDING SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
				54,418			
343	1981	0	0	54,418	54,418	0.00%	
	1982	0	0	54,418	54,418	0.00%	
	1983	0	0	54,418	54,418	0.00%	
	1984	0	0	54,418	54,418	0.00%	
	1985	0	0	54,418	54,418	0.00%	
	1986	0	0	54,418	54,418	0.00%	
	1987	0	0	54,418	54,418	0.00%	
	1988	0	0	54,418	54,418	0.00%	
	1989	32,683	0	87,101	70,759	0.00%	
	1990	4,649	0	91,750	89,425	0.00%	
	1991	0	0	91,750	91,750	0.00%	
	1992	(15,095)	0	76,655	84,202	0.00%	
	1993	0	0	76,655	76,655	0.00%	
	1994	0	0	76,655	76,655	0.00%	
	1995	0	0	76,655	76,655	0.00%	
	1996	0	0	76,655	76,655	0.00%	
	1997	0	0	76,655	76,655	0.00%	
	1998	6,790,595	2,491	6,864,759	3,470,707	0.07%	
	1999	0	0	6,864,759	6,864,759	0.00%	
	2000	8,942	0	6,873,702	6,869,231	0.00%	
	2001	0	0	6,873,702	6,873,702	0.00%	
	2002	0	0	6,873,702	6,873,702	0.00%	
	2003	0	0	6,873,702	6,873,702	0.00%	
	2004	0	0	6,873,702	6,873,702	0.00%	
	2005	0	0	6,873,702	6,873,702	0.00%	
	2006	0	0	6,873,702	6,873,702	0.00%	
	2007	0	0	6,873,702	6,873,702	0.00%	
	2008	0	0	6,873,702	6,873,702	0.00%	
	2009	0	0	6,873,702	6,873,702	0.00%	
	2010	0	0	6,873,702	6,873,702	0.00%	
	2011	5,068,373	0	11,942,074	9,407,888	0.00%	
	2012	(92)	0	11,941,982	11,942,028	0.00%	
	2013	1,816,000	0	13,757,982	12,849,982	0.00%	
	Last 5 years		0		9,589,460	0.00%	0.00%
	Last 10 years		0		8,231,581	0.00%	0.00%
	Last 20 years		125		6,022,412	0.00%	0.00%
	All years		75		3,675,647	0.00%	0.00%

Very limited data. Typically, this account has the highest IRR of the CT accounts. Base on expected Ind, nature of property, and some weight to data.
Use 0.30%

GULF POWER COMPANY
OTHER PRODUCTION PLANT - EXCLUDING SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
				3,285,976			
344	1981	0	0	3,285,976	3,285,976	0.00%	
	1982	0	222,500	3,063,476	3,174,726	7.01%	
	1983	0	0	3,063,476	3,063,476	0.00%	
	1984	0	0	3,063,476	3,063,476	0.00%	
	1985	0	0	3,063,476	3,063,476	0.00%	
	1986	0	0	3,063,476	3,063,476	0.00%	
	1987	0	0	3,063,476	3,063,476	0.00%	
	1988	0	0	3,063,476	3,063,476	0.00%	
	1989	0	0	3,063,476	3,063,476	0.00%	
	1990	0	0	3,063,476	3,063,476	0.00%	
	1991	0	0	3,063,476	3,063,476	0.00%	
	1992	0	0	3,063,476	3,063,476	0.00%	
	1993	0	0	3,063,476	3,063,476	0.00%	
	1994	0	0	3,063,476	3,063,476	0.00%	
	1995	0	0	3,063,476	3,063,476	0.00%	
	1996	0	0	3,063,476	3,063,476	0.00%	
	1997	0	0	3,063,476	3,063,476	0.00%	
	1998	3,107,233	0	6,170,709	4,617,092	0.00%	
	1999	0	0	6,170,709	6,170,709	0.00%	
	2000	0	0	6,170,709	6,170,709	0.00%	
	2001	0	0	6,170,709	6,170,709	0.00%	
	2002	0	0	6,170,709	6,170,709	0.00%	
	2003		0	6,170,709	6,170,709	0.00%	
	2004		0	6,170,709	6,170,709	0.00%	
	2005		0	6,170,709	6,170,709	0.00%	
	2006	0	0	6,170,709	6,170,709	0.00%	
	2007	554,327	178,881	6,546,155	6,358,432	2.81%	
	2008	0	0	6,546,155	6,546,155	0.00%	
	2009	0	0	6,546,155	6,546,155	0.00%	
	2010	0	0	6,546,155	6,546,155	0.00%	
	2011	0	0	6,546,155	6,546,155	0.00%	
	2012	0	0	6,546,155	6,546,155	0.00%	
	2013	0	0	6,546,155	6,546,155	0.00%	
	Last 5 years		0		6,546,155	0.00%	0.00%
	Last 10 years		17,888		6,414,749	0.28%	0.28%
	Last 20 years		8,944		5,593,601	0.16%	0.14%
	All years		12,163		4,606,999	0.26%	0.30%
							Use 0.25%

Limited data, only one ret. As is, the data result is within the Ind range. Base on expected Ind, nature of property, and some weight to data.

GULF POWER COMPANY
OTHER PRODUCTION PLANT - EXCLUDING SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
				109,094			
345	1981	0	0	109,094	109,094	0.00%	
	1982	0	0	109,094	109,094	0.00%	
	1983	0	0	109,094	109,094	0.00%	
	1984	0	0	109,094	109,094	0.00%	
	1985	0	0	109,094	109,094	0.00%	
	1986	0	0	109,094	109,094	0.00%	
	1987	0	0	109,094	109,094	0.00%	
	1988	0	0	109,094	109,094	0.00%	
	1989	0	0	109,094	109,094	0.00%	
	1990	17,670	0	126,765	117,930	0.00%	
	1991	0	0	126,765	126,765	0.00%	
	1992	0	0	126,765	126,765	0.00%	
	1993	0	0	126,765	126,765	0.00%	
	1994	0	0	126,765	126,765	0.00%	
	1995	0	0	126,765	126,765	0.00%	
	1996	0	0	126,765	126,765	0.00%	
	1997	0	0	126,765	126,765	0.00%	
	1998	584,090	0	710,855	418,810	0.00%	
	1999	0	0	710,855	710,855	0.00%	
	2000	0	0	710,855	710,855	0.00%	
	2001	0	0	710,855	710,855	0.00%	
	2002	0	0	710,855	710,855	0.00%	
	2003	1,682	0	712,537	711,696	0.00%	
	2004	0	1,301	711,237	711,887	0.18%	
	2005	11,589	12,463	710,363	710,800	1.75%	
	2006	0	0	710,363	710,363	0.00%	
	2007	0	0	710,363	710,363	0.00%	
	2008	0	0	710,363	710,363	0.00%	
	2009	0	0	710,363	710,363	0.00%	
	2010	0	0	710,363	710,363	0.00%	
	2011	796,676	85,758	1,421,281	1,065,822	8.05%	
	2012	0	0	1,421,281	1,421,281	0.00%	
	2013	363,200	0	1,784,481	1,602,881	0.00%	
	Last 5 years		17,152		1,102,142	1.56%	1.61%
	Last 10 years		9,952		906,449	1.10%	1.00%
	Last 20 years		4,976		677,274	0.73%	0.50%
	All years		3,016		455,320	0.66%	0.30%

Limited data, only few rets. As is, the data result is higher than the typical Ind range. Base on the data indications, expected Ind, and nature of property.
Use 0.25%

GULF POWER COMPANY
OTHER PRODUCTION PLANT - EXCLUDING SMITH CC
INTERIM RETIREMENT RATE

Acct	Year	Annual Additions \$	Retirements \$	EOY Balance \$	Average Balance \$	IRR %	Mean IRR %
				4,332			
346	1981	0	0	4,332	4,332	0.00%	
	1982	0	0	4,332	4,332	0.00%	
	1983	0	0	4,332	4,332	0.00%	
	1984	0	0	4,332	4,332	0.00%	
	1985	0	0	4,332	4,332	0.00%	
	1986	0	0	4,332	4,332	0.00%	
	1987	0	0	4,332	4,332	0.00%	
	1988	0	0	4,332	4,332	0.00%	
	1989	0	0	4,332	4,332	0.00%	
	1990	0	0	4,332	4,332	0.00%	
	1991	0	0	4,332	4,332	0.00%	
	1992	0	0	4,332	4,332	0.00%	
	1993	0	0	4,332	4,332	0.00%	
	1994	0	0	4,332	4,332	0.00%	
	1995	0	0	4,332	4,332	0.00%	
	1996	0	0	4,332	4,332	0.00%	
	1997	0	0	4,332	4,332	0.00%	
	1998	0	0	4,332	4,332	0.00%	
	1999	0	0	4,332	4,332	0.00%	
	2000	0	0	4,332	4,332	0.00%	
	2001	0	0	4,332	4,332	0.00%	
	2002	0	0	4,332	4,332	0.00%	
	2003	0	0	4,332	4,332	0.00%	
	2004	0	0	4,332	4,332	0.00%	
	2005	0	0	4,332	4,332	0.00%	
	2006	0	0	4,332	4,332	0.00%	
	2007	0	0	4,332	4,332	0.00%	
	2008	4,471	0	8,803	6,567	0.00%	
	2009	0	0	8,803	8,803	0.00%	
	2010	82,196	0	90,999	49,901	0.00%	
	2011		2,302	88,697	89,848	2.56%	
	2012		0	88,697	88,697	0.00%	
	2013	181,600	0	270,297	179,497	0.00%	
	Last 5 years		460		83,349	0.55%	0.51%
	Last 10 years		230		44,064	0.52%	0.26%
	Last 20 years		115		24,198	0.48%	0.13%
	All years		70		16,372	0.43%	0.08%

Very limited data, only few rets. As is, the data result is typical of Ind range.
Base on the data indications, expected Ind, and nature of property.
Use 0.30%

Attachment B

Staff's First & Second Data
Request – Clarifications
Docket No. 130151-EI
Attachment B
Page 1 of 1

AVERAGE REMAINING LIFE AND AGE CALC
31-Dec 2013
Gulf Power Company

353.0 Station Equipment

Average Service Life 45.0 Years
Net Removal 7% Deprec. Rate = 2.38 %
Future Curve Shape SO 45 SO

Year	Aged Investment (\$)	Age (Years)	Rem Life (Years)	Annual Accrual (\$)	Future Accrual (\$)	Total Amount to Recover (\$)	Alternative Theoretical Reserve (\$)	Weighted Age	Age as % of Life	Cond %	Rem Life (Years)	Life Weight	Weighted Rem Life
2013	7,194,512	0.5	44.58	171,229	7,829,984	7,698,128	88,184	3,597,258	1	99.021	44.589	159,878	7124063.71
2012	19,654,479	1.5	43.71	467,777	20,446,533	21,030,293	583,780	29,481,719	3	97.141	43.714	436,766	19092828.65
2011	17,486,110	2.5	42.51	416,169	17,691,344	18,710,138	1,018,794	43,715,275	6	94.485	42.509	386,590	16518179.13
2010	8,403,160	3.5	41.74	199,995	8,347,791	8,961,382	643,591	29,411,061	8	92.757	41.741	186,737	7794519.233
2009	4,882,655	4.5	41.00	115,731	4,744,971	5,203,041	458,070	21,881,948	10	91.102	40.996	108,059	4429998.845
2008	13,928,886	5.5	40.27	331,507	13,349,787	14,903,908	1,554,121	78,608,872	12	89.495	40.273	309,531	12458935.45
2007	1,849,755	6.5	39.57	44,024	1,742,030	1,979,238	237,208	12,023,407	14	87.931	39.569	41,106	1629499.824
2006	4,214,982	7.5	38.55	100,317	3,867,220	4,510,031	642,811	31,812,364	17	85.667	38.546	93,666	3617036.551
2005	4,165,799	8.5	37.88	99,146	3,755,850	4,457,408	701,795	35,409,290	19	84.186	37.884	92,573	3507021.84
2004	3,063,993	9.5	37.24	72,823	2,715,653	3,278,473	562,820	29,107,938	21	82.748	37.236	68,089	2535378.536
2003	2,722,989	10.5	36.80	64,807	2,371,936	2,913,598	541,662	28,591,382	23	81.339	36.803	60,511	2214882.974
2002	8,283,444	11.5	35.68	196,670	7,017,186	8,841,886	1,824,699	95,029,606	26	79.280	35.676	183,632	6551268.018
2001	10,799,452	12.5	35.07	267,027	9,013,937	11,555,414	2,541,477	134,983,156	28	77.940	35.073	236,988	8417096.595
2000	558,305	13.5	34.48	13,288	458,170	597,387	139,217	7,537,124	30	76.624	34.481	12,407	427798.2178
1999	1,006,688	14.5	33.90	23,959	812,210	1,077,156	264,948	14,596,978	32	75.332	33.899	22,371	758358.9871
1998	1,602,011	15.5	33.33	38,128	1,270,806	1,714,152	443,346	24,831,187	34	74.081	33.328	36,600	1184468.335
1997	2,813,624	16.5	32.49	66,984	2,175,660	3,010,577	834,917	46,424,790	37	72.194	32.487	62,525	2031258.713
1996	840,473	17.5	31.94	20,003	638,896	899,307	260,411	14,708,266	39	70.973	31.938	18,677	595608.069
1995	541,206	18.5	31.40	12,881	404,463	579,091	174,628	10,012,313	41	69.770	31.397	12,027	377800.9588
1994	471,825	19.5	30.86	11,229	346,627	504,852	158,325	9,200,582	43	68.585	30.863	10,485	323601.229
1993	1,193,348	20.5	30.08	28,402	854,332	1,276,882	422,550	24,463,834	48	66.838	30.077	28,519	797610.8759
1992	2,272,025	21.5	29.56	54,074	1,598,427	2,431,067	832,640	48,948,548	48	65.693	29.562	50,489	1492559.096
1991	4,188,209	22.5	29.05	98,832	2,894,310	4,479,243	1,584,933	94,189,698	50	64.563	29.053	93,027	2702720.988
1990	326,201	23.5	28.55	7,764	221,662	349,035	127,373	7,666,722	52	63.446	28.551	7,249	206962.3301
1989	2,599,200	24.5	28.05	61,861	1,735,201	2,781,144	1,045,943	63,680,393	54	62.344	28.056	57,780	1820434.992
1988	2,106,112	25.5	27.32	50,125	1,369,415	2,253,540	884,125	53,705,851	57	60.714	27.321	46,802	1278701.474
1987	2,702,274	26.5	26.84	64,314	1,726,188	2,891,433	1,165,245	71,810,267	59	59.643	26.839	60,081	1611710.214
1986	117,034	27.5	26.38	2,785	73,413	125,226	61,813	3,218,427	61	58.583	26.383	2,601	68562.28708
1985	1,305,451	28.5	25.89	31,070	804,402	1,396,833	592,431	37,205,366	63	57.535	25.891	29,010	710965.6428
1984	222,384	29.5	25.19	5,293	133,331	237,950	104,619	6,580,316	66	55.983	25.193	4,942	124498.10568
1983	237,447	30.5	24.73	5,851	139,749	254,069	114,320	7,242,144	68	54.962	24.733	5,277	130505.518
1982	449,108	31.5	24.28	10,689	259,529	480,548	221,017	14,146,912	70	53.950	24.278	9,980	242294.67555
1981	309,552	32.5	23.83	7,367	175,556	331,221	155,666	10,080,444	72	52.948	23.827	8,879	163901.6585
1980	907,896	33.5	23.38	21,608	505,195	971,438	466,243	30,414,179	74	51.985	23.380	20,176	471692.8234
1979	626,024	34.5	22.72	14,899	338,505	668,845	331,340	21,597,819	77	50.482	22.717	13,912	318030.6568
1978	83,098	35.5	22.28	1,978	44,070	88,813	44,843	2,949,920	79	49.511	22.280	1,847	41141.78891
1977	3,595,121	36.5	21.88	85,564	1,869,573	3,646,780	1,977,207	131,221,925	81	48.548	21.887	79,892	1746383.677
1976	170,971	37.5	21.42	4,069	87,158	182,939	96,781	6,411,428	83	47.693	21.417	3,799	81369.79663
1975	486,553	38.5	20.78	11,580	240,832	820,612	279,980	18,732,297	86	48.174	20.778	10,812	224661.3909
1974	483,167	39.5	20.36	11,023	224,428	486,589	271,161	18,295,104	88	48.238	20.357	10,293	206255.2967
1973	2,848,940	40.5	19.94	67,805	1,382,032	3,048,366	1,698,334	118,382,084	90	44.308	19.939	63,310	1262308.491
1972	49,613	41.5	19.52	1,181	23,053	53,086	30,033	2,058,934	92	43.385	19.523	1,103	21524.70564
1971	932,780	42.5	19.11	22,200	424,242	988,063	673,811	39,842,303	94	42.469	19.111	20,728	396136.4086
1970	727,290	43.5	18.50	17,308	320,217	778,200	467,984	31,837,098	97	41.107	18.498	16,182	298968.2476
1969	124,611	44.5	18.09	2,968	53,655	133,334	79,879	5,545,205	99	40.207	18.083	2,789	50102.27743
1968	1,107,643	45.5	17.69	26,382	466,344	1,185,178	718,834	50,397,738	101	39.312	17.691	24,614	435441.4221
1967	1,183,810	46.5	17.29	27,699	478,916	1,245,276	766,360	54,117,144	103	38.424	17.291	25,862	447180.4483
1966	18,604	47.5	16.70	443	7,398	19,907	12,509	883,704	106	37.101	16.698	413	8902.483106
1965	199,188	48.5	16.30	3,313	54,002	148,932	94,930	8,750,838	108	36.227	16.302	3,093	50429.2369
1964	132,380	49.5	15.91	3,151	50,132	141,647	91,515	6,652,821	110	35.367	15.911	2,942	48805.70398
1963	93,710	50.5	15.52	2,230	34,810	100,270	65,680	4,732,359	112	34.493	15.522	2,082	32322.97631
1962	178,317	51.5	15.13	4,244	64,212	190,800	126,588	9,183,345	114	33.633	15.135	3,983	59973.45707
1961	373,943	52.5	14.56	8,900	129,584	400,119	270,535	19,832,002	117	32.363	14.569	8,310	120980.6298
1960	82,474	53.5	14.18	1,487	21,088	68,847	45,761	3,342,333	119	31.505	14.177	1,388	19682.25418
1959	258,505	54.5	13.80	6,152	84,998	278,600	191,702	14,088,514	121	30.662	13.798	5,745	79282.10392
1958	178,128	55.5	13.42	4,239	56,887	190,597	133,710	9,888,100	123	29.823	13.420	3,968	53122.98195
1957	248,059	56.5	12.86	6,904	75,925	285,423	189,498	14,015,335	126	28.573	12.858	5,512	70877.21154
1956	13,708	57.5	12.48	328	4,068	14,667	10,599	788,188	128	27.744	12.485	305	3903.099468
1955	3,958	58.5	12.11	94	1,138	4,235	3,097	231,544	130	26.920	12.114	88	1065.503848
1954	79,482	59.5	11.74	1,892	22,212	85,046	82,834	4,729,168	132	26.100	11.745	1,786	20744.57431
1953	366,060	60.5	11.38	8,712	99,143	391,685	292,542	22,146,848	134	25.283	11.377	8,135	82551.9128
1952	455,774	61.5	10.83	10,847	117,473	487,878	370,205	28,030,099	137	24.085	10.829	10,128	109883.8798
1951	144,290	62.5	10.47	3,434	35,954	154,390	118,438	9,018,111	139	23.258	10.488	3,206	33558.97938
1950	15,128	63.5	10.10	360	3,638	16,185	12,549	960,521	141	22.454	10.104	336	3398.49305
1949	180,378	64.5	9.74	3,817	37,178	171,602	134,424	10,344,220	143	21.854	9.744	3,564	34727.34208
1948		65.5	9.21	0	0	0	0	0	146	20.459	9.207	0	0
1947		66.5	8.85	0	0	0	0	0	148	19.667	8.850	0	0
1946		67.5	8.50	0	0	0	0	0	150	18.978	8.495	0	0
1945		68.5	8.14	0	0	0	0	0	152	18.092	8.142	0	0
1944		69.5	7.79	0	0	0	0	0	154	17.309	7.789	0	0
1943		70.5	7.26	0	0	0	0	0	157	16.141	7.263	0	0
1942		71.5	6.91	0	0	0	0	0	159	15.366	6.914	0	0
1941		72.5	6.57	0	0	0	0	0	161	14.592	6.567	0	0
1940		73.5	6.22	0	0	0	0	0	163	13.822	6.220	0	0
1939		74.5	5.70	0	0	0	0	0	166	12.872	5.703	0	0
1938		75.5	5.36	0	0	0	0	0	168	11.909	5.359	0	0
1937		76.5	5.02	0	0	0	0	0	170	11.148	5.017	0	0
1936		7											