



Florida Power & Light Company, 215 S. Monroe St., Suite 810, Tallahassee, FL 32301

Jessica Cano
Principal Attorney
Florida Power & Light Company
700 Universe Boulevard
Juno Beach, FL 33408-0420
(561) 304-5226
(561) 691-7135 (Facsimile)

July 7, 2010

VIA HAND DELIVERY

Ms. Ann Cole
Division of the Commission Clerk and
Administrative Services
Florida Public Service Commission
Betty Easley Conference Center
2540 Shumard Oak Boulevard, Room 110
Tallahassee, FL 32399-0850

RECEIVED-FPSC
10 JUL - 7 PM 3:49
COMMISSION
CLERK

Re: Docket No. 100155-EG; Petition for Approval of Florida Power & Light Company's Demand Side Management Plan

Dear Ms. Cole:

Enclosed for filing on behalf of Florida Power & Light Company ("FPL") are an original and 10 copies (number of copies per Staff's request) of FPL's Revised Appendix A (Pagination Corrected). The pages within the Revised Appendix A filed on July 1, 2010, were in an incorrect order. The enclosed Revised Appendix A (Pagination Corrected) provides the pages in the correct order, and is intended to replace the Revised Appendix A filed on July 1, 2010.

Please contact me should you or your staff have any questions regarding this filing.

Sincerely,

Jessica Cano
for Jessica Cano

Enclosures

cc: Katherine Fleming
Vicki Kaufman
George Cavros
Susanne Brownless
Rick Chamberlain

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an FPL Group company

DOCUMENT NUMBER DATE

05545 JUL -7 e

FPSC-COMMISSION CLERK

**BEFORE THE FLORIDA PUBLIC SERVICE
COMMISSION**

DOCKET NO. 100155-EG

**DEMAND-SIDE MANAGEMENT PLAN OF
FLORIDA POWER & LIGHT COMPANY FOR 2010-2019**

PLAN DOCUMENT APPENDIX A - REVISED

JULY 1, 2010

(PAGINATION CORRECTED)

DOCUMENT NUMBER-DATE

05545 JUL-7 0

FPSC-COMMISSION CLERK

RESIDENTIAL LOW INCOME WEATHERIZATION

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Low Income Weatherization

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.29 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.39 KW
(3) KW LINE LOSS PERCENTAGE	5.66 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	788.59 KVA
(5) KVA LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.00 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.70738
(5) K FACTOR FOR T & D	1.69254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %
(10) UTILITY DISCOUNT RATE	8.29 %
(11) UTILITY APODGRATE	8.48 %
(12) UTILITY NON RECURRING REBATE INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUES SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2019-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.29 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.92 \$/KW
(6) BASE YEAR DISTRIBUTION COST	28.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %
(8) GENERATOR FIXED O & M COST	97.65 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.30 %
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.23 CENTS PER KWH** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* INPUT DATA - PART 1 CONTINUED
 PROGRAM AND GEORID SELECTED: KSV_RSG
 PROGRAM NAME: Residential Low Income Weatherization

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2009	0	0	0	0	40	0	304	0	304	
2010	120	297	0	420	125	0	312	0	312	
2011	123	297	0	423	220	0	320	0	320	
2012	126	297	0	426	324	0	323	0	404	
2013	129	297	0	429	422	0	404	0	501	
2014	170	357	0	527	566	0	301	0	514	
2015	223	432	0	655	691	0	514	0	605	
2016	229	432	0	661	827	0	526	0	614	
2017	235	432	0	667	963	0	614	0	630	
2018	282	492	0	774	1,057	0	650	0	667	
2019	320	552	0	872	1,151	0	667	0	681	
2020	353	612	0	965	1,245	0	681	0	698	
2021	386	672	0	1,058	1,339	0	698	0	716	
2022	419	732	0	1,151	1,433	0	716	0	734	
2023	452	792	0	1,245	1,527	0	734	0	752	
2024	485	852	0	1,339	1,621	0	752	0	770	
2025	518	912	0	1,433	1,715	0	770	0	788	
2026	551	972	0	1,527	1,809	0	788	0	806	
2027	584	1,032	0	1,621	1,903	0	806	0	824	
2028	617	1,092	0	1,715	1,997	0	824	0	842	
2029	650	1,152	0	1,809	2,091	0	842	0	860	
2030	683	1,212	0	1,903	2,185	0	860	0	878	
2031	716	1,272	0	1,997	2,279	0	878	0	896	
2032	749	1,332	0	2,091	2,373	0	896	0	914	
2033	782	1,392	0	2,185	2,467	0	914	0	932	
2034	815	1,452	0	2,279	2,561	0	932	0	950	
2035	848	1,512	0	2,373	2,655	0	950	0	968	
2036	881	1,572	0	2,467	2,749	0	968	0	986	
2037	914	1,632	0	2,561	2,843	0	986	0	1,004	
2038	947	1,692	0	2,655	2,937	0	1,004	0	1,022	
2039	980	1,752	0	2,749	3,031	0	1,022	0	1,040	
2040	1,013	1,812	0	2,843	3,125	0	1,040	0	1,058	
2041	1,046	1,872	0	2,937	3,219	0	1,058	0	1,076	
2042	1,079	1,932	0	3,031	3,313	0	1,076	0	1,094	
2043	1,112	1,992	0	3,125	3,407	0	1,094	0	1,112	
2044	1,145	2,052	0	3,219	3,501	0	1,112	0	1,130	
2045	1,178	2,112	0	3,313	3,595	0	1,130	0	1,148	
2046	1,211	2,172	0	3,407	3,689	0	1,148	0	1,166	
2047	1,244	2,232	0	3,501	3,783	0	1,166	0	1,184	
2048	1,277	2,292	0	3,595	3,877	0	1,184	0	1,202	
2049	1,310	2,352	0	3,689	3,971	0	1,202	0	1,220	
2050	1,343	2,412	0	3,783	4,065	0	1,220	0	1,238	
2051	1,376	2,472	0	3,877	4,159	0	1,238	0	1,256	
2052	1,409	2,532	0	3,971	4,253	0	1,256	0	1,274	
2053	1,442	2,592	0	4,065	4,347	0	1,274	0	1,292	
2054	1,475	2,652	0	4,159	4,441	0	1,292	0	1,310	
2055	1,508	2,712	0	4,253	4,535	0	1,310	0	1,328	
2056	1,541	2,772	0	4,347	4,629	0	1,328	0	1,346	
2057	1,574	2,832	0	4,441	4,723	0	1,346	0	1,364	
2058	1,607	2,892	0	4,535	4,817	0	1,364	0	1,382	
2059	1,640	2,952	0	4,629	4,911	0	1,382	0	1,400	
2060	1,673	3,012	0	4,723	5,005	0	1,400	0	1,418	
2061	1,706	3,072	0	4,817	5,099	0	1,418	0	1,436	
2062	1,739	3,132	0	4,911	5,193	0	1,436	0	1,454	
2063	1,772	3,192	0	5,005	5,287	0	1,454	0	1,472	
2064	1,805	3,252	0	5,099	5,381	0	1,472	0	1,490	
2065	1,838	3,312	0	5,193	5,475	0	1,490	0	1,508	
2066	1,871	3,372	0	5,287	5,569	0	1,508	0	1,526	
2067	1,904	3,432	0	5,381	5,663	0	1,526	0	1,544	
2068	1,937	3,492	0	5,475	5,757	0	1,544	0	1,562	
2069	1,970	3,552	0	5,569	5,851	0	1,562	0	1,580	
2070	2,003	3,612	0	5,663	5,945	0	1,580	0	1,598	
2071	2,036	3,672	0	5,757	6,039	0	1,598	0	1,616	
2072	2,069	3,732	0	5,851	6,133	0	1,616	0	1,634	
2073	2,102	3,792	0	5,945	6,227	0	1,634	0	1,652	
2074	2,135	3,852	0	6,039	6,321	0	1,652	0	1,670	
2075	2,168	3,912	0	6,133	6,415	0	1,670	0	1,688	
2076	2,201	3,972	0	6,227	6,509	0	1,688	0	1,706	
2077	2,234	4,032	0	6,321	6,603	0	1,706	0	1,724	
2078	2,267	4,092	0	6,415	6,697	0	1,724	0	1,742	
2079	2,300	4,152	0	6,509	6,791	0	1,742	0	1,760	
2080	2,333	4,212	0	6,603	6,885	0	1,760	0	1,778	
2081	2,366	4,272	0	6,697	6,979	0	1,778	0	1,796	
2082	2,399	4,332	0	6,791	7,073	0	1,796	0	1,814	
2083	2,432	4,392	0	6,885	7,167	0	1,814	0	1,832	
2084	2,465	4,452	0	6,979	7,261	0	1,832	0	1,850	
2085	2,498	4,512	0	7,073	7,355	0	1,850	0	1,868	
2086	2,531	4,572	0	7,167	7,449	0	1,868	0	1,886	
2087	2,564	4,632	0	7,261	7,543	0	1,886	0	1,904	
2088	2,597	4,692	0	7,355	7,637	0	1,904	0	1,922	
2089	2,630	4,752	0	7,449	7,731	0	1,922	0	1,940	
2090	2,663	4,812	0	7,543	7,825	0	1,940	0	1,958	
2091	2,696	4,872	0	7,637	7,919	0	1,958	0	1,976	
2092	2,729	4,932	0	7,731	8,013	0	1,976	0	1,994	
2093	2,762	4,992	0	7,825	8,107	0	1,994	0	2,012	
2094	2,795	5,052	0	7,919	8,201	0	2,012	0	2,030	
2095	2,828	5,112	0	8,013	8,295	0	2,030	0	2,048	
2096	2,861	5,172	0	8,107	8,389	0	2,048	0	2,066	
2097	2,894	5,232	0	8,201	8,483	0	2,066	0	2,084	
2098	2,927	5,292	0	8,295	8,577	0	2,084	0	2,102	
2099	2,960	5,352	0	8,389	8,671	0	2,102	0	2,120	
2100	2,993	5,412	0	8,483	8,765	0	2,120	0	2,138	
2101	3,026	5,472	0	8,577	8,859	0	2,138	0	2,156	
2102	3,059	5,532	0	8,671	8,953	0	2,156	0	2,174	
2103	3,092	5,592	0	8,765	9,047	0	2,174	0	2,192	
2104	3,125	5,652	0	8,859	9,141	0	2,192	0	2,210	
2105	3,158	5,712	0	8,953	9,235	0	2,210	0	2,228	
2106	3,191	5,772	0	9,047	9,329	0	2,228	0	2,246	
2107	3,224	5,832	0	9,141	9,423	0	2,246	0	2,264	
2108	3,257	5,892	0	9,235	9,517	0	2,264	0	2,282	
2109	3,290	5,952	0	9,329	9,611	0	2,282	0	2,300	
2110	3,323	6,012	0	9,423	9,705	0	2,300	0	2,318	
2111	3,356	6,072	0	9,517	9,799	0	2,318	0	2,336	
2112	3,389	6,132	0	9,611	9,893	0	2,336	0	2,354	
2113	3,422	6,192	0	9,705	9,987	0	2,354	0	2,372	
2114	3,455	6,252	0	9,799	10,081	0	2,372	0	2,390	
2115	3,488	6,312	0	9,893	10,175	0	2,390	0	2,408	
2116	3,521	6,372	0	9,987	10,269	0	2,408	0	2,426	
2117	3,554	6,432	0	10,081	10,363	0	2,426	0	2,444	
2118	3,587	6,492	0	10,175	10,457	0	2,444	0	2,462	
2119	3,620	6,552	0	10,269	10,551	0	2,462	0	2,480	
2120	3,653	6,612	0	10,363	10,645	0	2,480	0	2,498	
2121	3,686	6,672	0	10,457	10,739	0	2,498	0	2,516	
2122	3,719	6,732	0	10,551	10,833	0	2,516	0	2,534	
2123	3,752	6,792	0	10,645	10,927	0	2,534	0	2,552	
2124	3,785	6,852	0	10,739	11,021	0	2,552	0	2,570	
2125	3,818	6,912	0	10,833	11,115	0	2,570	0	2,588	
2126	3,851	6,972	0	10,927	11,209	0	2,588	0	2,606	
2127	3,884	7,032	0	11,021	11,303	0	2,606	0	2,624	
2128	3,917	7,092	0	11,115	11,397	0	2,624	0	2,642	
2129	3,950	7,152	0	11,209	11,491	0	2,642	0	2,660	
2130	3,983	7,212	0	11,303	11,585	0	2,660	0	2,678	
2131	4,016	7,272	0	11,397	11,679	0	2,678	0	2,696	
2132	4,049	7,332	0	11,491	11,773	0	2,696	0	2,714	
2133	4,082	7,392	0	11,585	11,867	0	2,714	0	2,732	
2134	4,115	7,452	0	11,679	11,961	0	2,732	0	2,750	
2135	4,148	7,512	0	11,773	12,055	0	2,750	0	2,768	
2136	4,181	7,572	0	11,867	12,149	0	2,768	0	2,786	
2137	4,214	7,632	0	11,961	12,243	0	2,786	0	2,804	
2138	4,247	7,692	0	12,055	12,337	0	2,804	0	2,822	
2139	4,280	7,752	0	12,149	12,431	0	2,822	0	2,840	
2140	4,313	7,812	0	12,243	12,525	0	2,840	0	2,	

CALCULATION OF GEN K FACTOR
PROGRAM/REGID SELECTED KEY_REG
PROGRAMNAME: Residential Low Income Werthornton

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
YEAR	REG-YEAR RATEBASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPRFC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORLD CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	1,858	120	0	289	178	65	23	150	0	305	305	3,762	3,856
2020	1,797	115	0	259	122	62	24	150	49	781	718	1,523	3,953
2021	1,507	109	0	245	101	60	24	150	42	750	635	2,156	4,051
2022	1,315	103	0	231	120	57	25	150	35	721	558	2,714	4,159
2023	1,130	97	0	218	118	54	25	150	28	692	492	3,206	4,256
2024	2,951	92	0	206	116	51	26	150	22	664	434	3,640	4,363
2025	1,779	86	0	194	134	49	27	150	16	637	382	4,022	4,472
2026	2,612	81	0	182	112	46	27	150	11	611	336	4,358	4,584
2027	2,450	76	0	171	105	43	28	150	10	585	296	4,654	4,698
2028	2,290	71	0	160	99	41	29	150	10	560	260	4,914	4,816
2029	2,129	66	0	149	92	38	30	150	10	535	228	5,143	4,936
2030	1,968	61	0	137	85	35	31	150	10	510	200	5,342	5,069
2031	1,807	56	0	126	78	33	31	150	10	484	174	5,517	5,186
2032	1,646	51	0	115	71	30	32	150	10	459	152	5,668	5,316
2033	1,485	46	0	104	64	27	32	150	10	434	132	5,800	5,449
2034	1,325	41	0	92	57	24	33	150	10	409	114	5,914	5,583
2035	1,164	36	0	81	49	22	34	150	10	383	98	6,012	5,724
2036	1,003	31	0	70	42	19	35	150	10	358	84	6,095	5,868
2037	842	26	0	59	35	16	36	150	10	333	72	6,168	6,014
2038	682	21	0	48	28	14	37	150	10	308	61	6,230	6,165
2039	521	16	0	36	23	11	38	150	(21)	283	52	6,281	6,319
2040	361	12	0	27	19	8	39	150	(33)	258	44	6,323	6,477
2041	204	9	0	20	14	5	40	150	(53)	233	38	6,355	6,639
2042	146	6	0	14	10	3	40	150	(73)	208	33	6,377	6,805
2043	98	3	0	7	6	(0)	42	150	(93)	183	28	6,389	

IN SERVICE COST (\$000)	3,762
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
DEPRFC. RATE	38.57%
DISCOUNT RATE	3.9%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

SOURCE	WEIGHT	COST
DEBT	44%	7.03%
P/S	0%	0.00%
C/S	56%	12.50%

K-FACTOR = CF/WFC / IN-SVC COST = 1.70738

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM/METHOD SELECTED: REV_RSC
 PROGRAMNAME: Residential Low Income Weatherization

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR. FOR DEFERRED TAX \$(000)	DEFERRED TAX DUSTO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR. RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(000) (9)-(12)+(13)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	137	137	130	130	136	136	0	351	0	0	0	0	(95)
2020	7.22%	264	401	150	301	136	273	49	351	0	0	0	49	(46)
2021	6.68%	244	646	150	451	136	409	42	351	0	0	0	42	(4)
2022	6.18%	226	872	150	602	136	546	33	351	0	0	0	33	30
2023	5.71%	209	1,081	150	752	136	682	28	351	0	0	0	28	58
2024	5.29%	190	1,274	150	903	136	819	22	351	0	0	0	22	80
2025	4.89%	179	1,453	150	1,053	136	955	16	351	0	0	0	16	97
2026	4.52%	165	1,618	150	1,204	136	1,092	11	351	0	0	0	11	108
2027	4.16%	143	1,762	150	1,354	136	1,228	10	351	0	0	0	10	118
2028	4.40%	163	1,945	150	1,505	136	1,364	10	351	0	0	0	10	128
2029	4.60%	163	2,108	150	1,655	136	1,501	10	351	0	0	0	10	139
2030	4.60%	163	2,271	150	1,806	136	1,637	10	351	0	0	0	10	149
2031	4.40%	163	2,434	150	1,956	136	1,774	10	351	0	0	0	10	159
2032	4.10%	163	2,598	150	2,107	136	1,910	10	351	0	0	0	10	170
2033	4.40%	163	2,761	150	2,257	136	2,047	10	351	0	0	0	10	180
2034	4.40%	163	2,924	150	2,408	136	2,183	10	351	0	0	0	10	190
2035	4.40%	163	3,087	150	2,558	136	2,319	10	351	0	0	0	10	201
2036	4.40%	163	3,250	150	2,709	136	2,456	10	351	0	0	0	10	211
2037	4.40%	163	3,414	150	2,859	136	2,592	10	351	0	0	0	10	221
2038	4.40%	163	3,577	150	3,010	136	2,729	10	351	0	0	0	10	232
2039	2.25%	82	3,659	150	3,160	136	2,865	(21)	351	0	0	0	(21)	211
2040	0.00%	0	3,659	150	3,311	136	3,002	(53)	351	0	0	0	(53)	158
2041	0.00%	0	3,659	150	3,461	136	3,138	(53)	351	0	0	0	(53)	105
2042	0.00%	0	3,659	150	3,612	136	3,275	(53)	351	0	0	0	(53)	53
2043	0.00%	0	3,659	150	3,762	136	3,411	(53)	351	0	0	0	(53)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(95)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	351
BOOK DEPR. RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Low Income Weatherization

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE	(5a)* ACCUMULATED DEPRECIATION	(5b)* ACCUMULATED DEF TAXES	(6) BEGINNING YEAR RATE BASE	(7) ENDING OF YEAR RATE BASE	(8) MID-YEAR RATE BASE
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2019	3.75%	137	0	3,612	150	(95)	3,858	3,707	3,782
2020	3.22%	264	49	3,461	301	(46)	3,707	3,507	3,607
2021	6.68%	244	42	3,311	451	(4)	3,307	3,315	3,411
2022	6.18%	224	35	3,160	602	30	3,315	3,130	3,222
2023	5.71%	209	28	3,010	732	58	3,130	2,951	3,041
2024	5.29%	193	22	2,859	903	80	2,951	2,779	2,865
2025	4.89%	179	16	2,709	1,053	97	2,779	2,612	2,696
2026	4.52%	165	11	2,558	1,204	108	2,612	2,450	2,531
2027	4.46%	163	10	2,408	1,354	118	2,450	2,290	2,370
2028	4.46%	163	10	2,257	1,505	128	2,290	2,129	2,209
2029	4.46%	163	10	2,107	1,655	139	2,129	1,968	2,048
2030	4.46%	163	10	1,956	1,806	149	1,968	1,807	1,888
2031	4.46%	163	10	1,806	1,956	159	1,807	1,646	1,727
2032	4.46%	163	10	1,655	2,107	170	1,646	1,486	1,566
2033	4.46%	163	10	1,505	2,257	180	1,486	1,325	1,405
2034	4.46%	163	10	1,354	2,408	190	1,325	1,164	1,244
2035	4.46%	163	10	1,204	2,558	201	1,164	1,003	1,084
2036	4.46%	163	10	1,053	2,709	211	1,003	842	923
2036	4.46%	163	10	903	2,859	221	842	682	762
2037	4.46%	163	10	752	3,010	232	682	521	601
2038	4.46%	163	10	602	3,160	241	521	391	456
2039	2.22%	82	(21)	602	3,160	158	391	294	342
2040	0.00%	0	(53)	451	3,311	105	294	196	245
2041	0.00%	0	(53)	301	3,461	53	196	98	147
2042	0.00%	0	(53)	150	3,612	0	98	0	48
2043	0.00%	0	(53)	(0)	3,762	0	0	0	0

* Columns not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (\$K/W)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	1.00%	1.020	0.00%	0.00	0.00
2011	-8	1.00%	1.041	0.00%	0.00	0.00
2012	-7	1.00%	1.063	0.00%	0.00	0.00
2013	-6	1.00%	1.126	0.15%	1.24	0.62
2014	-5	1.00%	1.159	1.90%	15.99	3.24
2015	-4	1.00%	1.194	4.57%	39.51	37.63
2016	-3	1.00%	1.230	37.20%	331.87	222.77
2017	-2	1.00%	1.267	45.74%	428.27	398.84
2018	-1	1.00%	1.305	10.44%	98.79	858.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(4) DEBT AFUDC (\$K/W)	100.00%		(6) CUMULATIVE TOTAL AFUDC (\$K/W)	(7) CONSTRUCTION PERIOD INTEREST (\$K/W)	(8) CUMULATIVE CPI (\$K/W)	(9) DEFERRED TAXES (\$K/W)	(10) CUMULATIVE DEFERRED TAXES (\$K/W)	(11) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(12) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
				(5) CUMULATIVE DEBT AFUDC (\$K/W)	(5) YEARLY TOTAL AFUDC (\$K/W)							
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.02	0.50	0.79	0.84	0.04	0.70	(0.14)	(0.15)	1.28	12.07
2014	-5	9.29	0.29	0.30	3.22	4.04	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2015	-4	37.57	1.18	1.49	19.29	23.36	15.90	19.25	(3.41)	(4.13)	251.16	412.06
2016	-3	226.84	7.07	3.56	53.10	76.45	43.47	62.72	(9.26)	(13.39)	473.57	885.49
2017	-2	622.20	19.46	28.01	88.39	156.24	66.78	127.50	(13.65)	(27.42)	179.18	1,064.61
2018	-1	534.83	29.46	57.47								

IN SERVICE YEAR	2019
PLANT COSTS	721,389,655
AFUDC RATE	8.48%

	57.47	156.24	127.50	(27.42)	1,064.61
	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS		
CONSTRUCTION CASH		3,208	3,208		
EQUITY AFUDC	351	203			
DEBT AFUDC			451		
CPI					
TOTAL	3,702	3,411	3,659		

* Column not specified in workbook

RESIDENTIAL POWER SAVERS ENERGY AUDIT PROGRAM

INPUT DATA - PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Power Saver Energy Audit Program

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.04 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.05 KW
(3) KW LINE LOSS PERCENTAGE	3.66 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	493.26 KVA
(5) KVA LINE LOSS PERCENTAGE	6.91 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.00 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7078
(5) K FACTOR FOR T & D	1.6754

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %/YR
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %/YR
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %/YR
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATE	*** %/YR
(10) UTILITY DISCOUNT RATE	3.89 %
(11) UTILITY AFDIC RATE	3.48 %
(12) UTILITY NON RECURRING REBATE INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE INCENTIVE	*** \$/CUST
(14) UTILITY REBATE INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012/2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	181.57 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %/YR
(8) GENERATOR FIXED O & M COST	97.65 \$/KW/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	2.50 %/YR
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.91 \$/KW
(12) T&D FIXED O & M ESCALATION RATE	2.50 %/YR
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KVA
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.50 %/YR
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	8.23 CENTS PER KVA** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %/YR

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/HR
(4) DEMAND CHARGE ESCALATION RATE	*** %

CALCULATION OF K-FACTOR
PROGRAM/METHOD SELECTED REV_REQ
PROGRAM NAME: Residential Power Service Energy Audit Program

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REG-YEAR RATEBASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPRECI- ATION \$(000)	DEPRECI- ATION TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	7,140	222	0	498	329	120	42	279	1	1,491	1,491	6,963
2020	6,861	213	0	479	226	113	44	279	51	1,446	1,528	7,137
2021	6,491	202	0	453	224	110	45	279	77	1,389	1,171	7,316
2022	6,136	191	0	428	221	105	46	279	64	1,334	1,033	7,499
2023	5,793	180	0	404	218	101	47	279	52	1,280	911	7,686
2024	5,463	170	0	381	215	95	48	279	41	1,229	805	7,876
2025	5,144	160	0	359	211	90	49	279	30	1,179	707	8,070
2026	4,835	150	0	337	208	85	50	279	21	1,130	625	8,267
2027	4,536	141	0	317	196	80	52	279	13	1,083	548	8,464
2028	4,238	132	0	296	183	75	53	279	6	1,036	482	8,666
2029	3,940	122	0	275	170	70	54	279	0	990	422	8,874
2030	3,643	113	0	254	157	65	56	279	19	943	370	9,086
2031	3,345	104	0	233	144	60	57	279	19	896	323	9,305
2032	3,047	95	0	213	131	55	59	279	19	849	281	9,529
2033	2,750	85	0	192	118	50	60	279	19	803	244	9,758
2034	2,452	76	0	171	105	45	62	279	19	756	211	9,985
2035	2,154	67	0	150	92	40	63	279	19	710	182	10,217
2036	1,857	58	0	130	79	35	65	279	19	663	156	10,456
2037	1,559	48	0	109	66	30	66	279	19	617	133	10,699
2038	1,261	39	0	88	53	25	68	279	19	570	113	10,946
2039	964	30	0	67	39	20	70	279	(20)	524	95	11,197
2040	724	21	0	41	145	15	71	279	(27)	486	81	11,453
2041	543	12	0	28	138	10	73	279	(27)	457	70	11,717
2042	382	11	0	25	130	5	75	279	(27)	427	60	11,987
2043	181	6	0	13	122	(5)	77	279	(27)	398	52	12,259

IN SERVICE COST (\$000)	6,963
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.57%
DISCOUNT RATE	8.2%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

SOURCE	WEIGHT	COST
DEBT	44%	7.73
E/S	0%	0.00
E/S	56%	12.50

K-FACTOR = CPWFC / IN-SVC COST = 1.70738

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Power Savers Energy Audit

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	254	254	279	279	253	253	1	650	0	0	0	1	(176)
2020	7.22%	489	743	279	557	253	505	51	650	0	0	0	91	(85)
2021	6.68%	452	1,195	279	836	253	758	77	650	0	0	0	77	(9)
2022	6.18%	418	1,613	279	1,114	253	1,010	64	650	0	0	0	64	56
2023	5.71%	387	2,000	279	1,393	253	1,263	52	650	0	0	0	52	108
2024	5.29%	358	2,358	279	1,671	253	1,515	41	650	0	0	0	41	148
2025	4.89%	331	2,689	279	1,950	253	1,768	30	650	0	0	0	30	179
2026	4.52%	306	2,995	279	2,228	253	2,020	21	650	0	0	0	21	199
2027	4.40%	302	3,297	279	2,507	253	2,273	19	650	0	0	0	19	219
2028	4.40%	302	3,599	279	2,785	253	2,525	19	650	0	0	0	19	238
2029	4.40%	302	3,902	279	3,064	253	2,778	19	650	0	0	0	19	257
2030	4.40%	302	4,204	279	3,342	253	3,036	19	650	0	0	0	19	276
2031	4.40%	302	4,506	279	3,621	253	3,283	19	650	0	0	0	19	295
2032	4.40%	302	4,808	279	3,899	253	3,533	19	650	0	0	0	19	314
2033	4.40%	302	5,110	279	4,178	253	3,788	19	650	0	0	0	19	333
2034	4.40%	302	5,412	279	4,457	253	4,041	19	650	0	0	0	19	352
2035	4.40%	302	5,714	279	4,735	253	4,293	19	650	0	0	0	19	372
2036	4.40%	302	6,016	279	5,014	253	4,546	19	650	0	0	0	19	391
2037	4.40%	302	6,319	279	5,292	253	4,798	19	650	0	0	0	19	410
2038	4.40%	302	6,621	279	5,571	253	5,051	19	650	0	0	0	19	429
2039	2.23%	151	6,772	279	5,849	253	5,303	(39)	650	0	0	0	(39)	390
2040	0.00%	0	6,772	279	6,128	253	5,556	(77)	650	0	0	0	(77)	292
2041	0.00%	0	6,772	279	6,406	253	5,808	(77)	650	0	0	0	(77)	195
2042	0.00%	0	6,772	279	6,685	253	6,061	(77)	650	0	0	0	(77)	97
2043	0.00%	0	6,772	279	6,963	253	6,313	(77)	650	0	0	0	(77)	0

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	3029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(177)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	650
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Power Savers Energy Audit Program

(1)	(2)	(3)	(4)	(5) END OF YEAR NET	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	ELABORATED SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2019	3.75%	254	1	6,085	279	(176)	7,140	6,861	7,000
2020	7.22%	489	51	6,466	557	(85)	6,861	6,491	6,676
2021	6.68%	452	77	6,128	836	(8)	6,491	6,136	6,314
2022	6.18%	418	66	5,849	1,114	56	6,136	5,793	5,964
2023	5.71%	387	52	5,571	1,393	108	5,793	5,463	5,638
2024	5.29%	358	41	5,292	1,671	148	5,463	5,144	5,303
2025	4.89%	331	30	5,014	1,950	179	5,144	4,835	4,989
2026	4.52%	306	21	4,735	2,228	199	4,835	4,536	4,685
2027	4.16%	302	19	4,457	2,507	219	4,536	4,238	4,387
2028	4.16%	302	19	4,178	2,785	238	4,238	3,940	4,089
2029	4.16%	302	19	3,899	3,064	257	3,940	3,643	3,792
2030	4.16%	302	19	3,621	3,342	276	3,643	3,345	3,494
2031	4.16%	302	19	3,342	3,621	295	3,345	3,047	3,196
2032	4.16%	302	19	3,064	3,899	314	3,047	2,750	2,899
2033	4.16%	302	19	2,785	4,178	333	2,750	2,452	2,601
2034	4.16%	302	19	2,507	4,457	352	2,452	2,154	2,303
2035	4.16%	302	19	2,228	4,735	372	2,154	1,857	2,006
2036	4.16%	302	19	1,950	5,014	391	1,857	1,559	1,708
2037	4.16%	302	19	1,671	5,292	410	1,559	1,261	1,410
2038	4.16%	302	19	1,393	5,571	429	1,261	964	1,113
2039	2.23%	151	(29)	1,114	5,849	390	964	724	844
2040	0.00%	0	(97)	836	6,128	292	724	543	634
2041	0.00%	0	(97)	557	6,406	195	543	362	453
2042	0.00%	0	(97)	279	6,685	97	362	181	272
2043	0.00%	0	(97)	(0)	6,963	0	181	0	90

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (\$)	(6) ANNUAL SPENDING (\$/KW)	(7) CUMULATIVE AVERAGE SPENDING (\$/KW)
2009	-18	3.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.34	0.62
2014	-5	3.00%	1.159	1.90%	15.99	9.24
2015	-4	3.00%	1.194	4.97%	39.61	37.03
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.34%	428.27	398.84
2018	-1	3.00%	1.305	10.44%	38.79	338.33

YEAR	NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/KW)	(9a)* DEBT AFUDC (\$/KW)	(9b)* CUMULATIVE DEBT AFUDC (\$/KW)	(9c)* YEARLY TOTAL AFUDC (\$/KW)	(9d)* TOTAL AFUDC (\$/KW)	(9e)* CONSTRUCTION PERIOD INTEREST (\$/KW)	(9f)* CUMULATIVE CPI (\$/KW)	(9g)* DEFERRED TAXES (\$/KW)	(9h)* CUMULATIVE DEFERRED TAXES (\$/KW)	(10)	(11)
											INCREMENTAL YEAR-END BOOK VALUE (\$/KW)	CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.62	0.65	0.65	0.04	0.04	(3.81)	(3.81)	1.29	1.29	1.29
2014	-5	9.29	8.29	0.79	0.84	0.63	0.70	(0.14)	(0.15)	16.78	18.07	18.07
2015	-4	37.87	1.18	1.49	3.22	4.86	3.35	(0.57)	(0.75)	42.83	60.90	60.90
2016	-3	226.94	7.07	8.56	19.29	23.26	15.00	19.25	(3.41)	(4.13)	351.16	412.06
2017	-2	622.20	19.46	23.81	53.10	76.63	43.47	62.72	(9.26)	(13.30)	473.57	885.43
2018	-1	394.83	29.46	57.47	80.29	156.84	64.78	127.50	(13.63)	(27.00)	179.18	1,064.61

59.47	156.84	127.50	(27.00)	1,064.61
IN SERVICE YEAR 2019 PLANT COSTS 725,389,035 AFUDC RATE 3.48%	CONSTRUCTION CASH EQUITY AFUDC DEBT AFUDC CPI TOTAL	BOOK BASIS 5,937 690 376 834 6,963	BOOK BASIS FOR DEF TAX 5,937 376 834 6,971	TAX BASIS 5,937 834 6,971

* Column not specified in workbook

RAID IMPACT TEST
PROGRAM/METHOD SELECTED: KEV_REQ
PROGRAM NAME: Residential Power Savers Energy Audit Program

(1) YEAR	(2) INCREASED SUPPLY COSTS \$(000)	(3) UTILITY PROGRAM COSTS \$(000)	(4) INCENTIVES \$(000)	(5) REVENUE LOSSES \$(000)	(6) OTHER COSTS \$(000)	(7) TOTAL COSTS \$(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	(9) AVOIDED T&D BENEFITS \$(000)	(10) REVENUE GAINS \$(000)	(11) OTHER BENEFITS \$(000)	(12) TOTAL BENEFITS \$(000)	(13) NET BENEFITS \$(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	1	236	(1,641)	(1,384)
2011	0	755	730	392	0	1,877	235	0	0	2	733	(1,390)	(2,926)
2012	0	774	730	1,239	0	2,743	734	37	0	0	1,517	(2,177)	(4,475)
2013	0	793	730	2,170	0	3,693	1,306	77	0	133	2,576	(2,496)	(6,165)
2014	0	813	730	3,223	0	4,766	1,949	115	0	286	3,147	(2,761)	(7,762)
2015	0	833	730	4,344	0	5,907	2,702	131	0	393	4,351	(3,493)	(9,689)
2016	0	1,068	1,191	5,690	0	7,748	3,663	190	0	398	5,454	(3,576)	(11,499)
2017	0	1,094	1,191	6,724	0	9,010	4,690	228	0	516	6,524	(3,596)	(15,142)
2018	0	1,122	1,191	7,975	0	10,287	5,838	266	0	647	7,751	(3,566)	(18,742)
2019	0	230	461	8,819	0	9,510	6,600	301	0	676	9,577	67	(18,669)
2020	0	236	461	8,946	0	9,543	8,815	293	0	702	9,810	267	(18,409)
2021	0	236	461	9,046	0	9,643	9,835	284	0	725	10,074	969	(17,338)
2022	0	366	1,037	9,839	0	11,209	9,317	276	0	846	10,439	(899)	(16,439)
2023	0	391	1,037	9,301	0	11,089	9,544	268	0	899	10,711	(325)	(15,933)
2024	0	1,615	1,037	9,583	0	11,636	9,891	260	0	995	11,146	(633)	(14,899)
2025	0	1,641	730	10,008	0	11,779	9,891	253	0	1,093	11,499	(688)	(14,280)
2026	0	1,677	730	10,268	0	12,184	10,133	245	0	1,151	11,741	(1,681)	(12,626)
2027	0	1,367	1,191	10,784	0	12,342	10,345	238	0	1,233	12,101	(1,839)	(10,787)
2028	0	1,401	1,191	11,248	0	12,946	10,611	230	0	1,365	12,476	(1,890)	(8,897)
2029	0	1,436	1,191	11,809	0	14,436	10,880	223	0	1,524	12,922	(619)	(7,275)
2030	0	589	615	12,338	0	13,541	11,175	215	0	1,611	13,325	(354)	(5,921)
2031	0	623	615	12,941	0	14,160	11,469	208	0	1,785	13,778	(2,090)	(4,831)
2032	0	1,546	1,191	13,531	0	16,268	11,785	201	0	1,934	14,226	(2,409)	(3,422)
2033	0	1,388	1,037	14,330	0	16,636	12,092	194	0	2,067	14,804	(1,145)	(2,277)
2034	0	1,360	1,037	15,612	0	17,949	12,543	188	0	2,231	15,311	(2,169)	(1,108)
2035	0	999	576	15,994	0	18,131	13,419	182	0	2,415	16,016	(2,115)	91
2036	0	1,024	576	16,530	0	20,159	13,889	176	0	2,629	16,675	(3,475)	1,463
2037	0	1,400	1,037	17,713	0	21,645	14,353	172	0	2,820	17,345	(4,301)	2,162
2038	0	1,793	1,191	18,661	0	22,582	14,836	167	0	3,042	18,046	(4,457)	2,705
2039	0	1,838	1,191	19,473	0	21,733	15,256	164	0	3,283	18,792	(3,051)	3,654
2040	0	754	615	20,365	0	22,701	15,814	161	0	3,536	19,511	(3,190)	4,464
2041	0	773	615	21,314	0	22,701	16,354	157	0	3,801	20,312	(5,299)	5,165
2042	0	1,980	1,191	22,440	0	24,611	16,895	154	0	4,132	21,201	(5,662)	5,503
2043	0	2,029	1,191	23,643	0	26,863	17,629	151	0	4,532	22,312	(5,886)	5,617
2044	0	2,080	1,191	24,927	0	28,128	18,229	151	0	0	0	0	5,617
2045	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2046	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2047	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2048	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2049	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2050	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2051	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2052	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2053	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2054	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2055	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2056	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2057	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2058	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2059	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2060	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2061	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2062	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2063	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2064	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2065	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2066	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2067	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2068	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2069	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2070	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2071	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2072	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2073	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2074	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2075	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2076	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2077	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2078	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2079	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2080	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2081	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2082	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2083	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2084	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2085	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2086	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2087	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2088	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2089	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2090	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2091	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2092	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2093	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2094	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2095	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2096	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2097	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2098	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2099	0	0	0	0	0	0	0	0	0	0	0	0	5,617
2100	0	0	0	0	0	0	0	0	0	0	0	0	5,617
NOM	0	36,978	30,151	401,134	0	468,323	308,689	6,427	0	53,301	388,416	(79,906)	(79,906)
NPV	0	9,109	8,633	73,690	0	91,232	61,730	1,708	0	7,879	71,318	(19,915)	(19,915)

Discount Rate 3.89 %
Benefit/Cost Ratio (Col(12) / Col(7)) : 0.78

RESIDENTIAL POWER SAVERS ENERGY EFFICIENCY PROGRAM

INPUT DATA - PART I CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Power Savers Energy Efficiency Program

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.62 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.83 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KWH REDUCTION PER CUSTOMER	1,588.27 KWH
(5) KWH LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.08 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7078
(5) K FACTOR FOR T & D	1.0029

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/COST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/COST
(3) UTILITY COST ESCALATION RATE	*** %
(4) CUSTOMER EQUIPMENT COST	*** \$/COST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %
+ INCREASED SUPPLY COSTS	*** \$/CUST/YR
+ SUPPLY COSTS ESCALATION RATES	*** %
- (10) UTILITY DISCOUNT RATE	8.89 %
- (11) UTILITY AFDISC RATE	8.48 %
+ (12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/COST
+ (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/COST
+ (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.59 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	28.64 \$/KW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %
(8) GENERATOR FIXED O & M COST	97.66 \$/CUST/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	2.50 %
(10) TRANSMISSION FIXED O & M COST	2.32 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O & M ESCALATION RATE	2.50 %
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KWH
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.23 CENTS PER KWH** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/MD
(4) DEMAND CHARGE ESCALATION RATE	*** %

CALCULATION OF GEN-FACTOR
PROGRAM/METHOD SELECTED REV_REQ
PROGRAM NAME: Residential Power Savers Energy Efficiency Program

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REG-YEAR RATE BASE \$ (000)	DEBT \$ (000)	PREFERRED STOCK \$ (000)	COMMON EQUITY \$ (000)	INCOME TAXES \$ (000)	PROPERTY TAX \$ (000)	PROPERTY INSURANCE \$ (000)	DEPREC. \$ (000)	DEFERRED TAXES \$ (000)	TOTAL RATED CHARGES \$ (000)	PRESENT WORTH RATED CHARGES \$ (000)	CUMULATIVE PW RATED CHARGES \$ (000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$ (000)
2019	36,026	1,119	0	2,514	1,639	607	214	1,405	3	7,521	7,521	7,521	35,134
2020	34,617	1,075	0	2,416	1,140	582	220	1,405	460	7,298	6,702	14,223	36,012
2021	32,732	1,017	0	2,285	1,129	557	225	1,405	388	7,008	5,911	20,134	36,913
2022	30,958	969	0	2,161	1,116	531	231	1,405	323	6,729	5,212	25,346	37,835
2023	29,299	908	0	2,040	1,102	506	237	1,405	261	6,459	4,595	29,941	38,781
2024	27,653	856	0	1,924	1,085	481	242	1,405	205	6,199	4,050	33,991	39,751
2025	25,953	806	0	1,811	1,067	455	249	1,405	153	5,946	3,508	37,558	40,745
2026	24,303	758	0	1,702	1,047	430	255	1,405	104	5,702	3,142	40,700	41,763
2027	22,685	711	0	1,597	989	405	261	1,405	57	5,465	2,765	43,465	42,807
2028	21,083	664	0	1,492	928	379	268	1,405	96	5,229	2,430	45,896	43,877
2029	19,581	618	0	1,387	857	354	274	1,405	37	4,995	2,131	48,027	44,974
2030	18,379	571	0	1,280	791	329	281	1,405	36	4,757	1,865	49,891	46,099
2031	16,878	524	0	1,178	725	304	288	1,405	37	4,521	1,628	51,519	47,251
2032	15,376	478	0	1,073	660	278	295	1,405	36	4,286	1,417	52,936	48,433
2033	13,874	431	0	968	594	253	303	1,405	37	4,051	1,234	54,196	49,640
2034	12,372	384	0	863	528	228	310	1,405	36	3,816	1,064	55,239	50,884
2035	10,870	338	0	759	462	202	318	1,405	37	3,581	917	56,147	52,157
2036	9,368	291	0	654	397	177	326	1,405	36	3,346	787	56,934	53,460
2037	7,867	244	0	549	331	152	334	1,405	37	3,112	672	57,606	54,797
2038	6,365	198	0	444	265	126	343	1,405	36	2,878	571	58,177	56,167
2039	4,863	151	0	339	199	101	351	1,405	(197)	2,644	482	58,639	57,571
2040	3,361	114	0	235	134	76	360	1,405	(492)	2,432	410	59,069	59,010
2041	2,741	85	0	131	694	51	369	1,405	(492)	2,304	354	59,423	60,486
2042	1,827	57	0	128	634	25	378	1,405	(492)	2,156	304	59,727	61,998
2043	913	28	0	64	614	0	388	1,405	(492)	2,008	260	59,987	63,548

IN SERVICE COST (\$000)	35,134
IN SERVICE YEAR	2019
BOOK LIFER (YRS)	25
DEPREC. RATE	38.575
DISCOUNT RATE	8.5%
PROPERTY TAX	1.809%
PROPERTY INSURANCE	0.624%

SOURCE	WEIGHT	COST
DEBT	44%	7.03
P/S	0%	0.00
C/S	56%	12.59

K-FACTOR = CPWEC / IN-SVC COST = 1.70728

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV. REG.
 PROGRAM NAME: Residential Power Savers Energy Kitck

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	1,281	1,281	1,405	1,405	1,274	1,274	3	3,279	0	0	0	3	(88)
2020	7.22%	2,466	3,747	1,405	2,811	1,274	2,548	460	3,279	0	0	0	460	(429)
2021	6.68%	2,261	6,008	1,405	4,216	1,274	3,823	388	3,279	0	0	0	388	(40)
2022	6.18%	2,111	8,140	1,405	5,621	1,274	5,097	323	3,279	0	0	0	323	283
2023	5.71%	1,952	10,092	1,405	7,027	1,274	6,371	261	3,279	0	0	0	261	544
2024	5.25%	1,806	11,898	1,405	8,432	1,274	7,645	205	3,279	0	0	0	205	749
2025	4.80%	1,670	13,568	1,405	9,838	1,274	8,919	153	3,279	0	0	0	153	902
2026	4.32%	1,545	15,113	1,405	11,243	1,274	10,193	104	3,279	0	0	0	104	1,006
2027	4.46%	1,534	16,637	1,405	12,648	1,274	11,468	97	3,279	0	0	0	97	1,113
2028	4.46%	1,524	18,162	1,405	14,054	1,274	12,742	96	3,279	0	0	0	96	1,199
2029	4.46%	1,524	19,686	1,405	15,459	1,274	14,016	97	3,279	0	0	0	97	1,296
2030	4.46%	1,524	21,210	1,405	16,864	1,274	15,290	96	3,279	0	0	0	96	1,392
2031	4.46%	1,524	22,735	1,405	18,270	1,274	16,564	97	3,279	0	0	0	97	1,489
2032	4.46%	1,524	24,259	1,405	19,675	1,274	17,839	96	3,279	0	0	0	96	1,585
2033	4.46%	1,524	25,783	1,405	21,080	1,274	19,113	97	3,279	0	0	0	97	1,683
2034	4.46%	1,524	27,307	1,405	22,486	1,274	20,387	96	3,279	0	0	0	96	1,778
2035	4.46%	1,524	28,832	1,405	23,891	1,274	21,661	97	3,279	0	0	0	97	1,875
2036	4.46%	1,524	30,356	1,405	25,296	1,274	22,935	96	3,279	0	0	0	96	1,971
2037	4.46%	1,524	31,880	1,405	26,702	1,274	24,209	97	3,279	0	0	0	97	2,068
2038	4.46%	1,524	33,405	1,405	28,107	1,274	25,484	96	3,279	0	0	0	96	2,164
2039	2.23%	782	34,187	1,405	29,513	1,274	26,758	(197)	3,279	0	0	0	(197)	1,965
2040	0.00%	0	34,187	1,405	30,918	1,274	28,032	(492)	3,279	0	0	0	(492)	1,475
2041	0.00%	0	34,187	1,405	32,323	1,274	29,306	(492)	3,279	0	0	0	(492)	983
2042	0.00%	0	34,187	1,405	33,729	1,274	30,580	(492)	3,279	0	0	0	(492)	492
2043	0.00%	0	34,187	1,405	35,134	1,274	31,855	(492)	3,279	0	0	0	(492)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(882)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,279
BOOK DEPR RATE - USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV REQ
 PROGRAM NAME: Residential Power Sewers Energy Efficiency Program

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(6)* ACCUMULATED DEPRECIATION \$(000)	(6)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	5.75%	1,281	3	33,729	1,465	(869)	34,626	34,617	35,321
2020	7.22%	2,466	440	32,283	2,811	(609)	34,617	32,722	33,685
2021	6.62%	2,281	389	30,918	4,216	(42)	32,722	30,538	31,835
2022	6.18%	2,111	323	29,513	5,621	283	30,538	29,236	30,694
2023	5.71%	1,952	261	28,107	7,027	544	29,230	27,563	28,597
2024	5.29%	1,806	205	26,702	8,432	749	27,563	25,553	26,738
2025	4.89%	1,670	153	25,296	9,838	912	25,553	24,395	25,174
2026	4.50%	1,545	104	23,891	11,243	1,066	24,395	22,885	23,640
2027	4.16%	1,424	57	22,486	12,648	1,193	22,885	21,383	22,134
2028	4.46%	1,324	96	21,080	14,054	1,199	21,383	19,881	20,632
2029	4.46%	1,324	97	19,675	15,459	1,296	19,881	18,379	19,130
2030	4.46%	1,324	96	18,270	16,864	1,392	18,379	16,878	17,628
2031	4.46%	1,324	97	16,864	18,270	1,489	16,878	15,376	16,127
2032	4.46%	1,324	96	15,459	19,675	1,585	15,376	13,874	14,625
2033	4.46%	1,324	97	14,054	21,080	1,682	13,874	12,372	13,123
2034	4.16%	1,324	96	12,648	22,486	1,778	12,372	10,870	11,621
2035	4.46%	1,324	97	11,243	23,891	1,875	10,870	9,368	10,119
2036	4.46%	1,324	96	9,838	25,296	1,971	9,368	7,867	8,617
2037	4.46%	1,324	97	8,432	26,702	2,068	7,867	6,365	7,116
2038	4.46%	1,324	96	7,027	28,107	2,164	6,365	4,863	5,614
2039	2.23%	702	(197)	5,621	29,513	1,966	4,863	3,361	4,219
2040	0.00%	0	(492)	4,216	30,918	1,475	3,361	2,741	3,198
2041	0.00%	0	(492)	2,811	32,323	983	2,741	1,827	2,284
2042	0.00%	0	(492)	1,405	33,729	492	1,827	913	1,370
2043	0.00%	0	(492)	0	35,134	0	913	0	457

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	3.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.13%	1.24	0.62
2014	-5	3.00%	1.159	1.90%	15.99	9.24
2015	-4	3.00%	1.194	4.37%	39.61	37.03
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	398.84
2018	-1	3.00%	1.305	10.44%	98.79	338.38

YEAR	NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(8a)* DEBT AFUDC (\$K/W)	(8b)* CUMULATIVE DEBT AFUDC (\$K/W)	(9) YEARLY TOTAL AFUDC (\$K/W)	(9a)* CUMULATIVE TOTAL AFUDC (\$K/W)	(9b)* CONSTRUCTION PERIOD INTEREST (\$K/W)	(9c)* CUMULATIVE CPI (\$K/W)	(9d)* DEFERRED TAXES (\$K/W)	(9e)* CUMULATIVE DEFERRED TAXES (\$K/W)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.62	0.62	0.65	0.65	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	0.30	0.79	0.84	0.63	0.70	(0.16)	(0.15)	14.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.87	8.56	19.29	23.36	15.99	19.25	(3.41)	(4.13)	351.16	412.06
2017	-2	622.20	19.46	26.01	53.10	76.45	43.47	62.72	(9.26)	(13.39)	473.57	885.43
2018	-1	934.83	29.46	57.47	86.39	156.84	64.78	127.59	(13.63)	(27.02)	179.18	1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,805
AFUDCRATE	8.48%

	57.47	156.84	127.59	(27.02)	1,064.61
	BOOK BASIS	SOCRATES FOR DEF TAX	TAXBASIS		
CONSTRUCTION CASE	29,958	29,958	29,958		
EQUITY AFUDC	3,229				
DEBT AFUDC	1,897	1,897			
CPI			4,208		
TOTAL	35,184	31,855	34,166		

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV REQ
 PROGRAM NAME: Residential Power Savers Energy Efficiency Program

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6)* INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAM KW EFFECTIVENESS FACTOR	(9) PROGRAM L/WA EFFECTIVENESS FACTOR
2009	0	0	6.29	9.27	6.29	0.00	1.00	1.00
2010	0	0	6.41	16.31	6.41	0.00	1.00	1.00
2011	5,000	5,000	6.35	8.20	6.68	0.00	1.00	1.00
2012	10,000	10,000	6.43	8.15	6.73	0.00	1.00	1.00
2013	15,000	15,000	7.05	8.21	7.22	0.00	1.00	1.00
2014	20,000	20,000	7.33	8.49	7.32	0.00	1.00	1.00
2015	25,000	25,000	8.11	9.34	8.35	0.00	1.00	1.00
2016	30,000	30,000	9.00	11.13	9.39	0.00	1.00	1.00
2017	35,000	35,000	9.75	12.22	10.15	0.00	1.00	1.00
2018	40,000	40,000	10.32	13.07	10.94	0.00	1.00	1.00
2019	40,000	40,000	11.50	14.68	12.05	10.41	1.00	1.00
2020	40,000	40,000	12.08	15.26	12.69	10.50	1.00	1.00
2021	40,000	40,000	12.57	15.89	13.21	10.74	1.00	1.00
2022	40,000	40,000	13.06	16.45	13.70	10.81	1.00	1.00
2023	40,000	40,000	13.39	16.48	14.02	10.80	1.00	1.00
2024	40,000	40,000	13.95	17.12	14.38	10.84	1.00	1.00
2025	40,000	40,000	14.40	17.54	15.03	10.96	1.00	1.00
2026	40,000	40,000	14.70	17.67	15.30	11.05	1.00	1.00
2027	40,000	40,000	15.13	17.88	15.70	11.17	1.00	1.00
2028	40,000	40,000	15.60	18.23	16.15	11.36	1.00	1.00
2029	40,000	40,000	16.02	18.29	16.53	11.41	1.00	1.00
2030	40,000	40,000	16.52	18.70	17.01	11.59	1.00	1.00
2031	40,000	40,000	17.08	19.32	17.56	11.80	1.00	1.00
2032	40,000	40,000	17.50	19.20	17.91	11.88	1.00	1.00
2033	40,000	40,000	18.27	19.94	18.56	12.10	1.00	1.00
2034	40,000	40,000	18.73	19.81	18.90	12.14	1.00	1.00
2035	40,000	40,000	19.57	20.99	19.80	12.29	1.00	1.00
2036	40,000	40,000	20.40	21.98	20.61	12.55	1.00	1.00
2037	40,000	40,000	21.11	22.55	21.30	12.70	1.00	1.00
2038	40,000	40,000	22.02	23.48	22.21	13.04	1.00	1.00
2039	40,000	40,000	22.78	24.12	22.94	13.32	1.00	1.00
2040	40,000	40,000	23.59	24.73	23.73	13.44	1.00	1.00
2041	40,000	40,000	24.54	25.65	24.67	13.75	1.00	1.00
2042	40,000	40,000	25.50	26.60	25.63	14.10	1.00	1.00
2043	40,000	40,000	26.74	28.27	26.91	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

PARTICIPANT COSTS AND BENEFITS
PROGRAM/METHOD SELECTED: REV_RSG
PROGRAM NAME: Residential Power Savers Energy Efficiency Program

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS' BILLS \$(000)	TAX CREDITS \$(000)	UTILITY KWH/ATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0
2011	53	0	6,096	0	6,649	6,465	0	0	6,465	945	26
2012	1,750	0	6,096	0	7,846	6,565	0	0	6,565	1,281	1,199
2013	3,963	0	6,096	0	9,161	6,729	0	0	6,729	2,432	2,929
2014	4,532	0	6,096	0	10,648	6,897	0	0	6,897	3,751	5,399
2015	6,125	0	6,296	0	12,531	7,417	0	0	7,417	5,114	8,448
2016	7,723	0	6,296	0	14,149	7,603	0	0	7,603	6,546	12,054
2017	9,497	0	6,296	0	15,893	7,793	0	0	7,793	8,186	16,153
2018	11,262	0	6,296	0	17,638	7,988	0	0	7,988	9,679	20,648
2019	12,454	0	600	0	13,054	768	0	0	768	12,286	25,892
2020	12,493	0	600	0	13,093	787	0	0	787	12,306	30,715
2021	12,765	0	1,410	0	14,175	1,896	0	0	1,896	12,279	35,135
2022	13,151	0	1,410	0	14,541	1,944	0	0	1,944	12,602	39,362
2023	13,333	0	1,410	0	14,943	1,992	0	0	1,992	12,951	43,234
2024	14,134	0	1,410	0	15,544	2,042	0	0	2,042	13,582	46,989
2025	14,443	0	3,910	0	18,582	5,804	0	0	5,804	12,347	50,263
2026	15,230	0	3,910	0	19,140	4,956	0	0	4,956	13,191	53,366
2027	16,025	0	3,910	0	19,936	4,698	0	0	4,698	13,838	56,355
2028	16,678	0	3,910	0	20,588	4,251	0	0	4,251	14,337	59,199
2029	17,424	0	3,100	0	20,524	3,989	0	0	3,989	15,444	62,812
2030	18,276	0	3,100	0	21,376	3,207	0	0	3,207	16,179	64,717
2031	19,110	0	5,440	0	24,549	3,365	0	0	3,365	15,184	67,050
2032	20,238	0	5,440	0	25,678	3,600	0	0	3,600	16,073	69,319
2033	22,048	0	2,940	0	24,988	5,318	0	0	5,318	19,670	71,368
2034	22,461	0	2,940	0	25,401	5,451	0	0	5,451	19,950	74,243
2035	23,345	0	2,940	0	26,285	5,587	0	0	5,587	20,698	76,505
2036	25,815	0	3,896	0	29,711	7,289	0	0	7,289	21,322	78,646
2037	26,354	0	3,896	0	30,250	7,778	0	0	7,778	22,471	80,717
2038	27,501	0	3,896	0	31,397	7,973	0	0	7,973	23,624	82,790
2039	28,780	0	4,056	0	32,816	8,508	0	0	8,508	24,309	84,591
2040	30,100	0	4,056	0	34,156	8,720	0	0	8,720	25,436	86,407
2041	31,691	0	4,866	0	36,557	10,723	0	0	10,723	25,834	88,181
2042	33,390	0	4,866	0	38,256	10,992	0	0	10,992	27,264	89,743
2043	35,203	0	4,866	0	40,069	11,266	0	0	11,266	28,805	91,236
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
NOM	566,572	0	132,746	0	699,318	218,093	0	0	218,093	489,233	
NPV	104,069	0	43,887	0	147,956	56,619	0	0	56,619	91,336	

In Service of Gen Unit: 2019
 Discount Rate: 8.89 %
 Benefit/Cost Ratio (Col(9) / Col(10)) 2.61

RESIDENTIAL SOLAR WATER HEATING

INPUT DATA - PART 1 CONTINUED
PROGRAM/METHOD SELECTED: REV_RHQ
PROGRAM NAME: Residential Solar Water Heating

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.25 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.34 KW
(3) KW LINE LOSS PERCENTAGE	2.66 %
(4) GENERATOR KWH REDUCTION PER CUSTOMER	1,914.8 KWH
(5) KVA LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.09 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.9738
(5) K FACTOR FOR T & D	1.6724

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON-RECURRING COST PER CUSTOMER	*** \$/COST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/COST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/COST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* INCREASED SUPPLY COSTS	*** \$/CUST/YR
+ SUPPLY COSTS ESCALATION RATES	*** %**
+ (10) UTILITY DISCOUNT RATE	3.89 %
+ (11) UTILITY AFUDC RATE	3.48 %
+ (12) UTILITY NON-RECURRING REBATE/INCENTIVE	*** \$/COST
+ (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/COST
+ (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	755.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	12.38 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	57.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.81 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.166 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	8.23 CENTS PER KWH** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KWH
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW&O
(4) DEMAND CHARGE ESCALATION RATE	*** %

**CALCULATION OF X-FACTOR
PROGRAMMED SELECTED INV. REQ
PROGRAM NAME: Residential Solar Water Heating**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REG-YEAR RATE BASE \$'(000)	DEBT \$'(000)	PREFERRED STOCK \$'(000)	COMMON EQUITY \$'(000)	INCOME TAXES \$'(000)	PROPERTY TAX \$'(000)	PROPERTY INSURANCE \$'(000)	DEPREC. \$'(000)	DEFERRED TAXES \$'(000)	TOTAL EDGED CHARGES \$'(000)	PRESENT EDGED CHARGES \$'(000)	CUMULATIVE PWEDGED CHARGES \$'(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$'(000)
2019	7,711	260	0	538	355	130	46	301	1	1,610	1,610	1,610	7,321
2020	7,410	230	0	517	344	125	47	301	98	1,581	1,435	3,045	7,789
2021	7,011	213	0	489	342	119	48	301	83	1,500	1,265	4,310	7,981
2022	6,627	206	0	462	239	114	49	301	69	1,440	1,116	5,425	3,089
2023	6,257	194	0	437	226	108	51	301	56	1,383	984	6,409	3,301
2024	5,900	183	0	412	232	103	52	301	44	1,327	867	7,276	3,389
2025	5,555	173	0	388	228	97	53	301	33	1,273	764	8,040	3,722
2026	5,222	162	0	364	224	92	54	301	22	1,221	673	8,712	3,940
2027	4,899	152	0	342	212	87	56	301	21	1,170	592	9,304	3,163
2028	4,577	142	0	319	198	81	57	301	21	1,119	520	9,824	3,392
2029	4,256	132	0	297	183	76	59	301	21	1,069	456	10,280	3,627
2030	3,934	122	0	275	169	70	60	301	21	1,018	399	10,680	3,863
2031	3,613	112	0	252	155	65	62	301	21	968	348	11,028	10,114
2032	3,291	102	0	230	141	60	63	301	21	917	300	11,331	10,367
2033	2,970	92	0	207	127	54	65	301	21	867	263	11,595	10,626
2034	2,648	82	0	185	113	49	66	301	21	817	228	11,822	10,892
2035	2,327	72	0	162	99	43	68	301	21	767	190	12,019	11,164
2036	2,005	62	0	140	85	38	70	301	21	716	168	12,187	11,444
2037	1,684	52	0	118	71	32	72	301	21	666	144	12,331	11,720
2038	1,362	42	0	95	57	27	73	301	21	616	122	12,435	12,023
2039	1,041	32	0	73	46	22	75	301	(42)	566	103	12,356	12,283
2040	782	24	0	51	37	16	77	301	(105)	525	88	12,644	12,632
2041	587	18	0	41	29	11	79	301	(105)	493	76	12,726	12,947
2042	391	12	0	27	20	5	81	301	(105)	461	63	12,785	13,271
2043	196	6	0	14	13	(0)	83	301	(105)	430	56	12,841	13,603

IN SERVICE COST (\$'000)	7,321
IN SERVICE YEAR	2019
BOOK LEE (YRS)	25
EFFEC. TAX RATE	38.57%
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.42%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	44%	7.03%
PS	0%	8.50%
CS	56%	12.50%

X-FACTOR = $\frac{CWFIC}{IN-SVC COST} = 1.7773$

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM(MEREC) SELECTED: REV_NHQ
 PROGRAM NAME: Residential Water Heating

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAKE RATE \$(000)	ANNUAL DEFERRED TAX (7)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	224	224	301	301	273	273	1	702	0	0	0	1	(190)
2020	7.22%	528	802	301	602	273	545	38	702	0	0	0	38	(92)
2021	6.63%	488	1,291	301	902	273	818	83	702	0	0	0	83	(9)
2022	6.18%	452	1,743	301	1,203	273	1,091	69	702	0	0	0	69	50
2023	5.71%	418	2,160	301	1,504	273	1,364	56	702	0	0	0	56	116
2024	5.29%	387	2,547	301	1,805	273	1,636	44	702	0	0	0	44	160
2025	4.89%	357	2,904	301	2,106	273	1,909	33	702	0	0	0	33	195
2026	4.52%	331	3,225	301	2,407	273	2,182	22	702	0	0	0	22	215
2027	4.16%	306	3,561	301	2,707	273	2,455	21	702	0	0	0	21	236
2028	4.82%	326	3,888	301	3,008	273	2,727	21	702	0	0	0	21	257
2029	4.46%	326	4,234	301	3,309	273	3,000	21	702	0	0	0	21	277
2030	4.10%	326	4,560	301	3,610	273	3,273	21	702	0	0	0	21	298
2031	4.46%	326	4,886	301	3,911	273	3,546	21	702	0	0	0	21	319
2032	4.10%	326	5,193	301	4,202	273	3,818	21	702	0	0	0	21	339
2033	4.46%	326	5,519	301	4,502	273	4,091	21	702	0	0	0	21	360
2034	4.10%	326	5,845	301	4,803	273	4,364	21	702	0	0	0	21	381
2035	4.46%	326	6,172	301	5,104	273	4,637	21	702	0	0	0	21	402
2036	4.10%	326	6,498	301	5,405	273	4,909	21	702	0	0	0	21	423
2037	4.46%	326	6,824	301	5,716	273	5,182	21	702	0	0	0	21	443
2038	4.10%	326	7,150	301	6,017	273	5,455	21	702	0	0	0	21	463
2039	4.46%	326	7,474	301	6,317	273	5,728	(42)	702	0	0	0	(42)	421
2040	2.23%	163	7,314	301	6,418	273	6,000	(105)	702	0	0	0	(105)	316
2041	0.00%	0	7,314	301	6,319	273	6,273	(105)	702	0	0	0	(105)	211
2042	0.00%	0	7,314	301	7,220	273	6,546	(105)	702	0	0	0	(105)	103
2043	0.00%	0	7,314	301	7,321	273	6,819	(105)	702	0	0	0	(105)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(191)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	702
BOOK DEPR RATE - 1/USEFUL LIFE	4.92%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SPECIFIED: REV_000
 PROGRAM NAME: Residential Solar Water Heating

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)						
2019	3.75%	274	1	7,220	301	(198)	7,711	7,410	7,561
2020	7.22%	328	98	6,919	602	(92)	7,410	7,011	7,210
2021	6.68%	488	83	6,618	502	(9)	7,011	6,627	6,819
2022	6.18%	452	69	6,317	1,303	80	6,627	6,257	6,442
2023	5.71%	418	56	4,017	1,504	115	6,257	5,906	6,178
2024	5.29%	387	44	5,714	1,805	160	5,906	5,555	5,728
2025	4.89%	357	33	5,415	2,106	193	5,555	5,222	5,389
2026	4.52%	331	22	5,114	2,407	215	5,222	4,899	5,069
2027	4.16%	326	21	4,813	2,707	236	4,899	4,577	4,738
2028	4.16%	326	21	4,512	3,008	257	4,577	4,256	4,416
2029	4.16%	326	21	4,212	3,309	277	4,256	3,934	4,095
2030	4.16%	326	21	3,911	3,610	298	3,934	3,613	3,773
2031	4.16%	326	21	3,610	3,911	319	3,613	3,291	3,452
2032	4.16%	326	21	3,309	4,212	339	3,291	2,970	3,131
2033	4.16%	326	21	3,008	4,512	360	2,970	2,648	2,809
2034	4.16%	326	21	2,707	4,813	381	2,648	2,327	2,488
2035	4.16%	326	21	2,407	5,114	401	2,327	2,005	2,166
2036	4.16%	326	21	2,106	5,415	422	2,005	1,684	1,845
2037	4.16%	326	21	1,805	5,714	443	1,684	1,362	1,523
2038	4.16%	326	21	1,504	6,017	463	1,362	1,041	1,202
2039	2.53%	163	(45)	1,203	6,317	481	1,041	782	912
2040	0.00%	0	(105)	902	6,618	516	782	587	685
2041	0.00%	0	(105)	602	6,919	541	587	391	489
2042	0.00%	0	(105)	301	7,220	565	391	196	293
2043	0.00%	0	(105)	(0)	7,521	0	196	0	98

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	3.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.04	0.82
2014	-5	3.00%	1.159	1.90%	15.99	9.29
2015	-4	3.00%	1.194	4.57%	39.61	57.63
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	428.27	393.84
2018	-1	3.00%	1.305	16.44%	98.79	338.38

YEAR	NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(9a)* DEBT AFUDC (\$K/W)	(9b)* CUMULATIVE DEBT AFUDC (\$K/W)	(9) YEARLY TOTAL AFUDC (\$K/W)	(9c)* CUMULATIVE TOTAL AFUDC (\$K/W)	(9d)* CONSTRUCTION PERIOD INTEREST (\$K/W)	(9e)* CUMULATIVE CPI (\$K/W)	(9f)* DEFERRED TAXES (\$K/W)	(9g)* CUMULATIVE DEFERRED TAXES (\$K/W)	(10)	(11)
											INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.02	0.62	0.05	0.65	0.04	0.70	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	0.30	0.54	0.55	0.65	1.35	(0.16)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.66	2.05	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.07	8.56	19.29	23.36	15.90	19.25	(3.41)	(4.15)	351.16	432.06
2017	-2	622.00	19.46	28.01	53.16	76.45	43.67	62.72	(9.26)	(13.39)	473.57	885.43
2018	-1	504.80	29.46	57.47	80.39	156.84	64.78	127.50	(13.63)	(27.02)	179.13	1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	75,280,955
AFUDC RATE	8.45%

57.47	156.84	127.50	27.02	1,064.61
	BOOK BASIS	BOOK BASIS FOR DEB TAX	TAXBASIS	
	CONSTRUCTION CASH	6,413	6,413	
	EQUITY AFUDC	702		
	DEBT AFUDC	406	406	
	CPI		501	
	TOTAL	7,521	6,919	7,513

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Solar Water Heating

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6)* INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAM/KW EFFECTIVENESS FACTOR	(9) PROGRAM/KWH EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	9.00	1.00	1.00
2010	1,366	1,366	6.41	6.70	9.01	9.00	1.00	1.00
2011	5,935	5,935	6.35	6.61	8.48	9.00	1.00	1.00
2012	10,837	10,837	6.43	6.66	8.45	9.00	1.00	1.00
2013	15,811	15,811	7.06	7.23	8.41	9.00	1.00	1.00
2014	20,781	20,781	7.53	7.68	8.67	9.00	1.00	1.00
2015	20,781	20,781	8.11	8.31	9.61	9.00	1.00	1.00
2016	20,781	20,781	9.00	9.21	11.55	9.00	1.00	1.00
2017	20,781	20,781	9.75	10.06	12.72	9.00	1.00	1.00
2018	20,781	20,781	10.53	10.86	13.53	9.00	1.00	1.00
2019	20,781	20,781	11.50	11.94	14.25	10.41	1.00	1.00
2020	20,781	20,781	12.08	12.57	15.88	10.50	1.00	1.00
2021	20,781	20,781	12.57	13.05	16.23	10.74	1.00	1.00
2022	20,781	20,781	13.06	13.59	17.14	10.21	1.00	1.00
2023	20,781	20,781	13.59	13.92	17.16	10.20	1.00	1.00
2024	20,781	20,781	13.95	14.47	17.82	10.24	1.00	1.00
2025	20,781	20,781	14.40	14.92	18.22	10.55	1.00	1.00
2026	20,781	20,781	14.70	15.19	18.32	11.05	1.00	1.00
2027	20,781	20,781	15.13	15.60	18.54	11.17	1.00	1.00
2028	20,781	20,781	15.60	16.05	18.91	11.36	1.00	1.00
2029	20,781	20,781	16.02	16.44	18.85	11.41	1.00	1.00
2030	20,781	20,781	16.32	16.92	19.26	11.59	1.00	1.00
2031	20,781	20,781	17.03	17.47	19.84	11.80	1.00	1.00
2032	20,781	20,781	17.50	17.84	19.62	11.88	1.00	1.00
2033	20,781	20,781	18.27	18.50	20.28	12.10	1.00	1.00
2034	20,781	20,781	18.73	18.86	20.03	12.14	1.00	1.00
2035	20,781	20,781	19.57	19.75	21.37	12.29	1.00	1.00
2036	20,781	20,781	20.40	20.54	22.39	12.55	1.00	1.00
2037	20,781	20,781	21.11	21.24	22.91	12.70	1.00	1.00
2038	20,781	20,781	22.02	22.16	23.86	13.04	1.00	1.00
2039	20,781	20,781	22.78	22.89	24.49	13.32	1.00	1.00
2040	20,781	20,781	23.59	23.68	25.04	13.44	1.00	1.00
2041	20,781	20,781	24.54	24.62	25.95	13.75	1.00	1.00
2042	20,781	20,781	25.50	25.59	26.84	14.10	1.00	1.00
2043	20,781	20,781	26.74	26.83	28.65	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

TOTAL RESOURCE COST TEST
 PROGRAM: RESIDUAL SELECTED KEY REQ
 PROGRAM NAME: Residential Solar Water Heating

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	(0)	(0)
2010	0	923	5,291	0	6,214	0	0	74	0	74	(6,140)	(6,140)
2011	0	1,204	18,213	0	19,417	0	20	290	1	412	(18,005)	(24,145)
2012	0	888	19,853	0	20,741	0	89	980	3	1,072	(19,669)	(43,814)
2013	0	793	20,743	0	21,537	0	167	1,544	183	1,894	(19,643)	(63,457)
2014	0	803	21,245	0	22,047	0	242	2,223	229	2,774	(19,273)	(82,730)
2015	0	0	0	0	0	0	312	2,771	351	3,435	(18,843)	(101,573)
2016	0	0	0	0	0	0	303	3,113	390	3,807	(18,453)	(120,000)
2017	0	0	0	0	0	0	294	3,360	429	4,082	(18,055)	(138,055)
2018	0	0	0	0	0	0	286	3,626	466	4,378	(17,677)	(155,707)
2019	0	0	0	0	0	1,934	277	3,996	425	4,633	(17,254)	(172,961)
2020	0	0	0	0	0	1,798	270	4,200	427	5,795	(16,829)	(190,156)
2021	0	0	0	0	0	1,723	262	4,382	460	6,330	(16,399)	(206,555)
2022	0	0	0	0	0	1,715	235	4,533	513	7,036	(15,964)	(222,519)
2023	0	0	0	0	0	1,746	247	4,658	543	7,394	(15,570)	(238,989)
2024	0	0	0	0	0	1,765	240	4,840	601	7,446	(15,169)	(254,158)
2025	0	0	0	0	0	1,762	233	4,991	656	7,641	(14,763)	(268,821)
2026	0	0	0	0	0	1,774	226	5,077	687	7,763	(14,346)	(282,577)
2027	0	0	0	0	0	1,788	218	5,210	747	7,963	(13,919)	(295,546)
2028	0	0	0	0	0	1,786	211	5,339	813	8,162	(13,482)	(307,728)
2029	0	0	0	0	0	1,826	204	5,482	865	8,417	(13,037)	(319,145)
2030	0	0	0	0	0	1,826	197	5,639	971	8,630	(12,582)	(329,727)
2031	0	0	0	0	0	1,812	190	5,821	1,045	8,879	(12,117)	(338,606)
2032	0	0	0	0	0	1,869	183	5,937	1,142	9,131	(11,642)	(346,738)
2033	0	0	0	0	0	1,864	177	6,144	1,206	9,392	(11,150)	(354,110)
2034	0	0	0	0	0	1,951	172	6,251	1,294	9,670	(10,646)	(360,736)
2035	0	0	0	0	0	1,981	168	6,550	1,463	10,102	(10,102)	(365,838)
2036	0	0	0	0	0	1,982	163	6,811	1,523	10,451	(9,579)	(370,317)
2037	0	0	0	0	0	2,004	162	7,041	1,634	10,941	(9,045)	(374,262)
2038	0	0	0	0	0	1,947	159	7,346	1,763	11,215	(8,522)	(377,784)
2039	0	0	0	0	0	1,913	156	7,383	1,899	11,590	(8,023)	(380,807)
2040	0	0	0	0	0	1,996	153	7,843	2,044	12,036	(7,506)	(383,313)
2041	0	0	0	0	0	1,977	150	8,154	2,197	12,478	(6,978)	(385,291)
2042	0	0	0	0	0	1,940	147	8,473	2,433	12,995	(6,443)	(386,734)
2043	0	0	0	0	0	1,948	144	8,895	2,689	13,676	(5,895)	(387,629)
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
NOM	0	4,611	85,336	0	89,947	46,693	6,680	169,273	22,134	254,683	164,737	164,737
NPV	0	3,640	64,242	0	67,882	9,411	2,027	34,882	5,144	50,443	17,439	17,439

Discount Rate: 8.59 %
 Benefit/Cost Ratio (Col(11) / Col(6)):

8.59 %
0.74

RAKE IMPACT TEST
PROGRAM/METHOD SELECTED: REV_RBQ
PROGRAM NAME: Residential Solar Water Heating

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0	(0)	(0)
2010	0	923	1,366	112	0	2,401	74	0	0	0	74	(2,327)	(2,327)
2011	0	1,204	4,588	617	0	6,409	390	26	0	1	411	(5,998)	(7,194)
2012	0	888	4,882	1,492	0	7,263	900	89	0	3	992	(6,271)	(12,465)
2013	0	793	4,974	2,488	0	8,255	1,444	167	0	183	1,894	(6,367)	(14,579)
2014	0	803	4,979	3,425	0	9,207	2,253	242	0	229	2,794	(6,623)	(24,945)
2015	0	0	0	4,316	0	4,316	2,771	312	0	351	3,435	(361)	(21,454)
2016	0	0	0	4,462	0	4,462	3,113	303	0	399	3,897	(634)	(21,796)
2017	0	0	0	4,625	0	4,625	3,369	294	0	429	4,082	(543)	(22,470)
2018	0	0	0	4,754	0	4,754	3,626	288	0	466	4,378	(376)	(22,245)
2019	0	0	0	4,928	0	4,928	3,930	277	0	425	4,633	1,705	(21,517)
2020	0	0	0	4,944	0	4,944	4,086	270	0	427	4,703	1,739	(20,828)
2021	0	0	0	5,051	0	5,051	4,107	262	0	469	4,800	1,778	(20,188)
2022	0	0	0	5,198	0	5,198	4,268	255	0	513	5,036	1,838	(19,580)
2023	0	0	0	5,353	0	5,353	4,404	247	0	543	5,194	1,838	(19,022)
2024	0	0	0	5,593	0	5,593	4,605	240	0	601	5,446	1,832	(18,505)
2025	0	0	0	5,794	0	5,794	4,732	235	0	636	5,641	1,847	(18,030)
2026	0	0	0	6,027	0	6,027	4,851	226	0	687	5,763	1,737	(17,694)
2027	0	0	0	6,342	0	6,342	4,997	218	0	747	5,963	1,621	(17,274)
2028	0	0	0	6,690	0	6,690	5,138	211	0	813	6,162	1,562	(16,964)
2029	0	0	0	7,095	0	7,095	5,309	204	0	905	6,417	1,322	(16,687)
2030	0	0	0	7,552	0	7,552	5,465	197	0	971	6,633	1,409	(16,432)
2031	0	0	0	7,962	0	7,962	5,633	190	0	1,059	6,829	1,317	(16,250)
2032	0	0	0	8,409	0	8,409	5,806	183	0	1,142	7,121	1,123	(16,092)
2033	0	0	0	8,725	0	8,725	6,009	177	0	1,206	7,392	667	(16,045)
2034	0	0	0	9,088	0	9,088	6,222	172	0	1,296	7,679	782	(15,912)
2035	0	0	0	9,236	0	9,236	6,351	163	0	1,408	10,362	864	(15,818)
2036	0	0	0	9,899	0	9,899	6,773	165	0	1,513	10,451	332	(15,762)
2037	0	0	0	10,429	0	10,429	7,045	162	0	1,624	10,841	412	(15,724)
2038	0	0	0	10,883	0	10,883	7,293	159	0	1,763	11,215	332	(15,686)
2039	0	0	0	11,381	0	11,381	7,496	156	0	1,899	11,530	169	(15,685)
2040	0	0	0	11,911	0	11,911	7,839	153	0	2,044	12,036	125	(15,674)
2041	0	0	0	12,541	0	12,541	8,131	150	0	2,197	12,478	(63)	(15,678)
2042	0	0	0	13,213	0	13,213	8,415	147	0	2,433	12,995	(218)	(15,691)
2043	0	0	0	13,931	0	13,931	8,849	144	0	2,689	13,676	(253)	(15,706)
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
NGM	0	4,611	20,781	233,061	0	238,453	213,978	6,680	0	32,134	254,693	(3,770)	
NPV	0	3,640	15,092	46,817	0	60,149	43,273	2,027	0	5,144	50,443	(15,716)	

Discount Rate 8.89 %
Benefit/Cost Ratio (Col(12) / Col(7)) : 0.76

**RESIDENTIAL SOLAR WATER HEATING
(LOW INCOME NEW CONSTRUCTION)**

INPUT DATA -- PART 1 CONTINUED
PROGRAM/MS/SCD SELECTED: REV_REQ
PROGRAM/NAME: Residential Solar Water Heating (Low Income New Construction)

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.25 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.34 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KW REDUCTION PER CUSTOMER	1.9185 KWH
(5) KW LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.09
(7) CUSTOMER KWH INCREASE AT METER	0.09 KWH

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7038
(5) K FACTOR FOR T & D	1.6354

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON-RECURRING COST PER CUSTOMER	*** \$COST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$COST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$COST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$COST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	**+ \$COST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	8.89 %
(11) UTILITY AFUDC RATE	8.48 %
(12) UTILITY NON-RECURRING REBATE/INCENTIVE	*** \$COST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$COST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	**+ %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2019-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.08 %**
(8) GENERATOR FIXED O & M COST	91.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.59 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.59 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.59 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (is-service year)
(16) AVOIDED GENERATOR UNIT FUEL COST	5.23 CENTS PER KWH** (is-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KWH
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/AC
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

CALCULATION OF GENEX FACTOR
PROGRAMMETERED SELECTED REV REQ
PROGRAM NAME: Residential Solar Water Heating (Low Income New Construction)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REQ-YEAR RATEBASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPRCC \$(000)	DEFERRED TAXES \$(000)	TOTAL RISKED CHARGES \$(000)	PRESENT WORTH RISKED CHARGES \$(000)	CUMULATIVE FW RISKED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	304	9	0	21	14	5	2	12	0	64	64	64	297
2020	292	9	0	20	10	5	2	12	4	62	57	120	304
2021	277	9	0	19	10	5	2	12	3	59	50	179	312
2022	261	8	0	18	9	4	2	12	3	57	44	214	320
2023	247	8	0	17	9	4	2	12	2	55	39	253	328
2024	233	7	0	16	9	4	2	12	2	52	34	287	336
2025	219	7	0	15	9	4	2	12	1	50	30	317	344
2026	206	6	0	14	9	4	2	12	1	48	27	344	353
2027	193	6	0	13	8	3	2	12	1	46	23	367	362
2028	181	6	0	13	8	3	2	12	1	44	21	388	371
2029	168	5	0	12	7	3	2	12	1	42	18	406	380
2030	155	5	0	11	7	3	2	12	1	40	16	421	389
2031	143	4	0	10	6	3	2	12	1	38	14	435	399
2032	130	4	0	9	6	2	2	12	1	36	12	447	408
2033	117	4	0	8	5	2	3	12	1	34	10	458	418
2034	105	3	0	7	4	2	3	12	1	32	9	467	430
2035	92	3	0	6	4	2	3	12	1	30	8	474	441
2036	79	2	0	6	3	1	3	12	1	28	7	481	452
2037	66	2	0	5	3	1	3	12	1	26	6	487	463
2038	54	2	0	4	2	1	3	12	1	24	5	491	474
2039	41	1	0	3	4	1	3	12	(2)	22	4	495	486
2040	31	1	0	2	6	1	3	12	(5)	21	3	499	498
2041	23	1	0	2	6	0	3	12	(5)	19	3	502	511
2042	15	0	0	1	6	0	3	12	(5)	18	3	504	524
2043	8	0	0	1	5	(0)	3	12	(5)	17	2	507	537

IN SERVICE COST (\$000)	297
IN SERVICE YEAR	2019
BOOKLINE (YRS)	25
EFFEC. TACR RATE	28.57%
DISCOUNT RATE	5.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	44%	7.03
INS	0%	0.00
CS	56%	12.50

X-FACTOR = CF/WFC / IN-SVC COST = 1.79738

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD(S) SELECTED: EBY REQ
 PROGRAM NAME: Residential Solar Water Heating (Low I)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS LIFE	(10)*(11) TACRATE \$(000)	SALVAGE TACRATE \$(000)	ANNUAL DEFERRED TAX \$(9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	11	11	12	12	11	11	0	28	0	0	0	0	(8)
2020	7.22%	21	32	12	24	11	22	4	28	0	0	0	4	(4)
2021	6.68%	19	51	12	36	11	33	3	28	0	0	0	3	(9)
2022	6.15%	18	69	12	47	11	43	3	28	0	0	0	3	2
2023	5.71%	16	85	12	59	11	54	2	28	0	0	0	2	5
2024	5.29%	15	100	12	71	11	63	2	28	0	0	0	2	6
2025	4.89%	14	115	12	83	11	75	1	28	0	0	0	1	8
2026	4.52%	13	128	12	95	11	86	1	28	0	0	0	1	8
2027	4.40%	13	141	12	107	11	97	1	28	0	0	0	1	9
2028	4.46%	13	153	12	119	11	108	1	28	0	0	0	1	10
2029	4.46%	13	166	12	131	11	118	1	28	0	0	0	1	11
2030	4.46%	13	179	12	142	11	129	1	28	0	0	0	1	12
2031	4.46%	13	192	12	154	11	140	1	28	0	0	0	1	13
2032	4.46%	13	205	12	166	11	151	1	28	0	0	0	1	13
2033	4.46%	13	218	12	178	11	161	1	28	0	0	0	1	14
2034	4.46%	13	231	12	190	11	172	1	28	0	0	0	1	15
2035	4.46%	13	244	12	202	11	183	1	28	0	0	0	1	16
2036	4.46%	13	256	12	214	11	194	1	28	0	0	0	1	17
2037	4.46%	13	269	12	226	11	204	1	28	0	0	0	1	17
2038	4.46%	13	282	12	237	11	215	1	28	0	0	0	1	18
2039	2.23%	6	289	12	249	11	226	(2)	28	0	0	0	(2)	17
2040	0.00%	0	289	12	261	11	237	(4)	28	0	0	0	(4)	12
2041	0.00%	0	289	12	273	11	248	(6)	28	0	0	0	(6)	8
2042	0.00%	0	289	12	285	11	259	(6)	28	0	0	0	(6)	4
2043	0.00%	0	289	12	297	11	269	(6)	28	0	0	0	(6)	0

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(8)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	28
BOOK DEPR RATE - USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_RBC
 PROGRAM NAME: Residential Solar Water Heating (Low Income New Construction)

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	11	0	285	12	(3)	304	292	298
2020	7.22%	21	4	273	24	(4)	292	277	285
2021	6.68%	19	3	261	36	(6)	277	261	269
2022	6.18%	18	3	249	47	2	261	247	254
2023	5.71%	16	2	237	59	3	247	233	240
2024	5.29%	15	2	226	71	6	233	219	226
2025	4.92%	14	1	214	83	3	219	206	213
2026	4.52%	13	1	202	95	3	206	193	200
2027	4.46%	13	1	190	107	9	193	181	187
2028	4.46%	13	1	178	119	10	181	168	174
2029	4.46%	13	1	166	131	11	168	155	162
2030	4.46%	13	1	154	142	12	155	143	149
2031	4.46%	13	1	142	154	13	143	130	136
2032	4.46%	13	1	131	166	13	130	117	124
2033	4.46%	13	1	119	178	14	117	105	111
2034	4.46%	13	1	107	190	13	105	92	98
2035	4.46%	13	1	95	202	16	92	79	85
2036	4.46%	13	1	83	214	17	79	66	73
2037	4.46%	13	1	71	226	17	66	54	60
2038	4.46%	13	1	59	237	18	54	41	47
2039	2.23%	6	(2)	47	249	17	41	31	36
2040	0.00%	0	(4)	35	261	12	31	23	27
2041	0.00%	0	(4)	24	273	3	23	15	19
2042	0.00%	0	(4)	12	285	4	15	8	12
2043	0.00%	0	(4)	(0)	297	0	8	0	4

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (\$K/W)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	3.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.62
2014	-5	3.00%	1.159	1.30%	15.99	9.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.230	37.20%	331.37	222.77
2017	-2	3.00%	1.267	45.74%	420.27	596.84
2018	-1	3.00%	1.305	10.44%	58.79	838.28

YEAR	NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(8)* DEBT AFUDC (\$K/W)	(8)* CUMULATIVE DEBT AFUDC (\$K/W)	(9) YEARLY TOTAL AFUDC (\$K/W)	(9)* CUMULATIVE TOTAL AFUDC (\$K/W)	(9)* CONSTRUCTION PERIOD INTEREST (\$K/W)	(9)* CUMULATIVE CPI (\$K/W)	(9)* DEFERRED TAXES (\$K/W)	(9)* CUMULATIVE DEFERRED TAXES (\$K/W)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.62	0.62	0.65	0.65	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	1.18	0.50	0.79	0.84	0.65	0.70	(0.14)	(0.15)	16.78	18.07
2015	-4	37.37	7.07	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	19.46	8.56	19.29	23.36	15.96	19.25	(3.41)	(4.13)	351.16	412.06
2017	-2	822.00	29.46	23.01	53.10	76.65	43.47	62.72	(9.28)	(13.39)	473.37	885.43
2018	-1	934.83	29.46	57.47	89.39	156.94	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

57.47

156.94

127.50

(27.02)

1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	733,389,843
AFUDC RATE	3.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	253	253	253
EQUITY AFUDC	28		
DEBT AFUDC	16	16	
CPI			36
TOTAL	297	269	289

* Column not specified in workbook

INFODATA - PART 2
 PROGRAM/METHOD SELECTED : REV_REQ
 PROGRAM NAME: Residential Solar Water Heating (Low Income New Construction)

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/GWH)	(5) AVOIDED MARGINAL FUEL COST (\$/GWH)	(6)* INCREASED MARGINAL FUEL COST (\$/GWH)	(7) REPLACEMENT FUEL COST (\$/GWH)	(8) PROGRAM/KW EFFECTIVENESS FACTOR	(9) PROGRAM/KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	20	20	6.41	6.79	9.01	0.00	1.00	1.00
2011	220	220	6.35	6.61	8.48	0.00	1.00	1.00
2012	420	420	6.40	6.66	8.45	0.00	1.00	1.00
2013	620	620	7.06	7.23	8.41	0.00	1.00	1.00
2014	820	820	7.53	7.65	8.67	0.00	1.00	1.00
2015	820	820	8.11	8.31	9.61	0.00	1.00	1.00
2016	820	820	9.00	9.31	11.85	0.00	1.00	1.00
2017	820	820	9.75	10.06	12.72	0.00	1.00	1.00
2018	820	820	10.52	10.86	13.53	0.00	1.00	1.00
2019	820	820	11.50	11.94	15.25	10.61	1.00	1.00
2020	820	820	12.48	12.57	15.88	10.50	1.00	1.00
2021	820	820	12.57	13.08	16.53	10.74	1.00	1.00
2022	820	820	13.06	13.39	17.14	10.81	1.00	1.00
2023	820	820	13.39	13.92	17.16	10.80	1.00	1.00
2024	820	820	13.95	14.67	17.82	10.84	1.00	1.00
2025	820	820	14.40	14.91	18.22	10.96	1.00	1.00
2026	820	820	14.79	15.19	18.32	11.05	1.00	1.00
2027	820	820	15.13	15.60	18.54	11.17	1.00	1.00
2028	820	820	15.60	16.05	18.91	11.36	1.00	1.00
2029	820	820	16.02	16.44	18.85	11.41	1.00	1.00
2030	820	820	16.52	16.92	19.26	11.59	1.00	1.00
2031	820	820	17.08	17.47	19.86	11.80	1.00	1.00
2032	820	820	17.50	17.84	19.62	11.88	1.00	1.00
2033	820	820	18.27	18.50	20.38	12.10	1.00	1.00
2034	820	820	18.75	18.86	20.08	12.14	1.00	1.00
2035	820	820	19.57	19.75	21.27	12.29	1.00	1.00
2036	820	820	20.40	20.54	22.59	12.55	1.00	1.00
2037	820	820	21.11	21.34	22.91	12.70	1.00	1.00
2038	820	820	22.02	22.16	23.86	13.04	1.00	1.00
2039	820	820	22.78	22.89	24.49	13.32	1.00	1.00
2040	820	820	23.59	23.68	25.04	13.44	1.00	1.00
2041	820	820	24.54	24.62	25.93	13.75	1.00	1.00
2042	820	820	25.59	25.59	26.84	14.10	1.00	1.00
2043	820	820	26.74	26.85	28.65	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHEDDING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

PARTICIPANT COSTS AND BENEFITS
PROGRAM(METHOD) SELECTED: KEY_REQ
PROGRAM NAME: Residential Solar Water Heating (Low Income New Construction)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS BY PARTICIPANTS	TAX CREDITS	UTILITY REBAIIES	OTHER BENEFITS	TOTAL BENEFITS	CUSTOMER EQUIPMENT COSTS	CUSTOMER O&M COSTS	OTHER COSTS	TOTAL COSTS	NET BENEFITS	CUMULATIVE DISCOUNTED NET BENEFITS
	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2009	0	0	0	0	0	0	0	0	0	0	0
2010	2	1	100	0	103	100	0	0	100	3	3
2011	27	15	1,000	0	1,042	1,000	0	0	1,000	42	38
2012	75	23	1,000	0	1,098	1,000	0	0	1,000	96	114
2013	128	31	1,000	0	1,159	1,000	0	0	1,000	159	227
2014	188	39	1,000	0	1,227	1,000	0	0	1,000	227	375
2015	224	0	0	0	224	0	0	0	0	224	510
2016	232	0	0	0	232	0	0	0	0	232	637
2017	240	0	0	0	240	0	0	0	0	240	729
2018	247	0	0	0	247	0	0	0	0	247	814
2019	256	0	0	0	256	0	0	0	0	256	883
2020	257	0	0	0	257	0	0	0	0	257	1,063
2021	262	0	0	0	262	0	0	0	0	262	1,178
2022	270	0	0	0	270	0	0	0	0	270	1,267
2023	278	0	0	0	278	0	0	0	0	278	1,351
2024	290	0	0	0	290	0	0	0	0	290	1,432
2025	301	0	0	0	301	0	0	0	0	301	1,509
2026	313	0	0	0	313	0	0	0	0	313	1,583
2027	329	0	0	0	329	0	0	0	0	329	1,654
2028	343	0	0	0	343	0	0	0	0	343	1,722
2029	358	0	0	0	358	0	0	0	0	358	1,787
2030	376	20	0	0	396	0	0	0	0	396	1,854
2031	393	216	0	0	609	0	0	0	0	609	1,947
2032	416	229	0	0	645	0	0	0	0	645	2,038
2033	453	243	0	0	696	0	0	0	0	696	2,128
2034	461	256	0	0	718	0	0	0	0	718	2,214
2035	480	0	0	0	480	0	0	0	0	480	2,266
2036	514	0	0	0	514	0	0	0	0	514	2,318
2037	541	0	0	0	541	0	0	0	0	541	2,368
2038	565	0	0	0	565	0	0	0	0	565	2,416
2039	591	0	0	0	591	0	0	0	0	591	2,462
2040	618	0	0	0	618	0	0	0	0	618	2,506
2041	651	0	0	0	651	0	0	0	0	651	2,548
2042	686	0	0	0	686	0	0	0	0	686	2,589
2043	723	0	0	0	723	0	0	0	0	723	2,630
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
NBIC	12,087	1,075	4,100	0	17,262	4,100	0	0	4,100	13,162	
NPV	2,432	210	3,075	0	5,704	3,075	0	0	3,075	2,630	

In Service of Gen Fund:
Discount Rate :
Benefit/Coal Rate (Col(6) / Col(7,8))

2019 8.29 % 1.84

BUSINESS SOLAR WATER HEATING

INPUT DATA - PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_RBC
PROGRAM NAME: Business Solar Water Heating

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.86 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.15 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	1.927.00 KVA
(5) KVA LINE LOSS PERCENTAGE	4.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.00 KVA

II. ECONOMIC LIFE & X FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) X FACTOR FOR GENERATION	1.70738
(5) X FACTOR FOR T & D	1.63254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATE	*** %**
(10) UTILITY DISCOUNT RATE	8.89 %
(11) UTILITY AFUDC RATE	8.48 %
(12) UTILITY NONRECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SEARCHED IN WORKBOOK
 ** VALUES SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2010-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.30 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.92 \$/KW
(6) BASE YEAR DISTRIBUTION COST	28.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	37.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	8% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	8.23 CENTS PER KWH** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KWH
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

INPUT DATA - PART 1 CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Solar Water Heating

YEAR	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	UTILITY INCENTIVES \$(000)	OTHER UTILITY COSTS \$(000)	TOTAL UTILITY PROGRAM COSTS \$(000)	ENERGY CHARGE REVENUE LOSSES \$(000)	DEMAND CHARGE REVENUE LOSSES \$(000)	PARTICIPANT EQUIPMENT COSTS \$(000)	PARTICIPANT O&M COSTS \$(000)	OTHER PARTICIPANT COSTS \$(000)	TOTAL PARTICIPANT COSTS \$(000)
2009	0	0	0	0	0	0	0	0	0	0
2010	86	17	0	103	2	1	76	0	0	76
2011	178	43	0	241	9	5	288	0	0	288
2012	262	76	0	338	24	13	359	0	0	359
2013	378	92	0	470	44	23	446	0	0	446
2014	447	111	0	558	70	36	550	0	0	550
2015	0	0	0	0	57	45	0	0	0	0
2016	0	0	0	0	52	45	0	0	0	0
2017	0	0	0	0	56	47	0	0	0	0
2018	0	0	0	0	59	47	0	0	0	0
2019	0	0	0	0	104	46	0	0	0	0
2020	0	0	0	0	165	45	0	0	0	0
2021	0	0	0	0	128	44	0	0	0	0
2022	0	0	0	0	119	44	0	0	0	0
2023	0	0	0	0	117	44	0	0	0	0
2024	0	0	0	0	124	44	0	0	0	0
2025	0	0	0	0	131	43	0	0	0	0
2026	0	0	0	0	138	43	0	0	0	0
2027	0	0	0	0	147	43	0	0	0	0
2028	0	0	0	0	155	44	0	0	0	0
2029	0	0	0	0	163	44	0	0	0	0
2030	0	0	0	0	173	45	0	0	0	0
2031	0	0	0	0	183	45	0	0	0	0
2032	0	0	0	0	194	46	0	0	0	0
2033	0	0	0	0	216	47	0	0	0	0
2034	0	0	0	0	231	48	0	0	0	0
2035	0	0	0	0	252	47	0	0	0	0
2036	0	0	0	0	272	48	0	0	0	0
2037	0	0	0	0	287	49	0	0	0	0
2038	0	0	0	0	281	49	0	0	0	0
2039	0	0	0	0	296	49	0	0	0	0
2040	0	0	0	0	312	50	0	0	0	0
2041	0	0	0	0	331	50	0	0	0	0
2042	0	0	0	0	352	50	0	0	0	0
2043	0	0	0	0	373	50	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
NOM	1,352	359	0	1,719	5,634	2,417	1,720	0	0	1,720
NPV	924	265	0	1,189	1,839	319	1,268	0	0	1,268

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR ITC AND EDC/CSSIS

Calculation of GENX-FACTOR
PROGRAM(MENUCID) SELECTED REV_JOBQ
PROGRAM NAME: Business Solar Water Heating

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	BEG-YEAR RATEBASE \$'(000)	DEBT \$'(000)	PREFERRED STOCK \$'(000)	COMMON EQUITY \$'(000)	INCOME TAXES \$'(000)	PROPERTY TAX \$'(000)	PROPERTY INSURANCE \$'(000)	DEPREC. \$'(000)	DEFERRED TAXES \$'(000)	TOTAL FIXED CHARGES \$'(000)	PRESENT WORTH FIXED CHARGES \$'(000)	CUMULATIVE YR FIXED CHARGES \$'(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$'(000)
2019	306	10	0	21	14	5	2	12	0	64	64	64	299
2020	294	9	0	21	10	5	2	12	4	62	57	121	306
2021	278	9	0	19	10	5	2	12	3	60	50	171	314
2022	263	8	0	18	9	5	2	12	3	57	44	215	321
2023	248	8	0	17	9	4	2	12	2	55	39	254	330
2024	234	7	0	16	9	4	2	12	2	53	34	289	338
2025	221	7	0	15	9	4	2	12	1	51	30	319	346
2026	207	6	0	14	9	4	2	12	1	48	27	346	355
2027	194	6	0	14	8	3	2	12	1	46	24	369	364
2028	182	6	0	13	8	3	2	12	1	44	21	390	373
2029	169	5	0	12	7	3	2	12	1	42	18	408	382
2030	156	5	0	11	7	3	2	12	1	40	16	424	392
2031	143	4	0	10	6	3	2	12	1	38	14	438	402
2032	131	4	0	9	6	2	3	12	1	36	12	450	412
2033	118	4	0	8	5	2	3	12	1	34	10	460	422
2034	105	3	0	7	4	2	3	12	1	32	9	468	432
2035	92	3	0	6	4	2	3	12	1	30	8	477	443
2036	80	2	0	6	3	1	3	12	1	28	7	484	454
2037	67	2	0	5	3	1	3	12	1	26	6	490	466
2038	54	2	0	4	2	1	3	12	(2)	24	5	494	477
2039	41	1	0	3	2	1	3	12	(4)	22	4	498	489
2040	31	1	0	2	2	1	3	12	(4)	21	3	501	501
2041	23	1	0	2	2	0	3	12	(4)	20	3	505	514
2042	16	0	0	1	2	0	3	12	(5)	18	3	508	527
2043	8	0	0	1	1	0	3	12	(5)	17	2	510	540

IN SERVICE COST (\$000)	299
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
REFRAC. TAX RATE	38.57%
DISCOUNT RATE	3.9%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	44%	7.03
INS	0%	0.00
CM	56%	12.50

K-FACTOR = CFWFC / IN-SVC COST =

1.7078

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM AND PERIOD SELECTED: REV_XBQ
 PROGRAM NAME: Business Solar Water Heating

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR. FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR. RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	11	11	12	12	11	11	0	22	0	0	0	0	(8)
2020	7.22%	21	32	12	24	11	22	4	22	0	0	0	4	(4)
2021	6.68%	19	51	12	36	11	32	3	22	0	0	0	3	(0)
2022	6.18%	18	69	12	48	11	43	3	22	0	0	0	3	2
2023	5.71%	17	86	12	60	11	54	2	22	0	0	0	2	5
2024	5.29%	15	101	12	72	11	65	2	22	0	0	0	2	6
2025	4.89%	14	115	12	84	11	76	1	22	0	0	0	1	8
2026	4.52%	13	128	12	96	11	87	1	22	0	0	0	1	9
2027	4.16%	13	141	12	107	11	97	1	22	0	0	0	1	9
2028	4.48%	13	154	12	119	11	108	1	22	0	0	0	1	10
2029	4.46%	13	167	12	131	11	119	1	22	0	0	0	1	11
2030	4.48%	13	180	12	143	11	130	1	22	0	0	0	1	12
2031	4.46%	13	193	12	155	11	141	1	22	0	0	0	1	13
2032	4.48%	13	206	12	167	11	152	1	22	0	0	0	1	13
2033	4.48%	13	219	12	179	11	162	1	22	0	0	0	1	14
2034	4.48%	13	232	12	191	11	173	1	22	0	0	0	1	15
2035	4.48%	13	245	12	203	11	184	1	22	0	0	0	1	16
2036	4.48%	13	258	12	215	11	195	1	22	0	0	0	1	17
2037	4.48%	13	271	12	227	11	206	1	22	0	0	0	1	18
2038	4.48%	13	284	12	239	11	217	1	22	0	0	0	1	18
2039	2.22%	6	290	12	251	11	227	(2)	22	0	0	0	(2)	17
2040	0.00%	0	290	12	263	11	238	(4)	22	0	0	0	(4)	13
2041	0.00%	0	290	12	275	11	249	(4)	22	0	0	0	(4)	8
2042	0.00%	0	290	12	287	11	260	(4)	22	0	0	0	(4)	4
2043	0.00%	0	290	12	299	11	271	(4)	22	0	0	0	(4)	0

SALVAGE/REMOVAL COST	0.06
YEAR SALVAGE/ COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(8)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	22
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: XEN_REQ
 PROGRAM NAME: Business Solar Water Heating

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	11	0	297	12	(8)	285	294	300
2020	7.22%	21	4	276	24	(4)	284	278	286
2021	6.58%	19	3	263	36	(8)	278	263	271
2022	6.18%	18	3	251	48	2	263	248	256
2023	5.71%	17	2	239	60	5	248	234	241
2024	5.29%	15	2	227	72	6	234	221	227
2025	4.89%	14	1	215	84	8	221	207	214
2026	4.52%	13	1	203	96	9	207	194	201
2027	4.16%	13	1	191	107	9	194	182	188
2028	4.46%	13	1	179	119	10	182	169	175
2029	4.46%	13	1	167	131	11	169	156	163
2030	4.46%	13	1	155	143	12	156	143	150
2031	4.46%	13	1	143	155	13	143	131	137
2032	4.46%	13	1	131	167	13	131	118	124
2033	4.46%	13	1	119	179	14	118	105	112
2034	4.46%	13	1	107	191	15	105	92	99
2035	4.46%	13	1	96	203	16	92	80	86
2036	4.46%	13	1	84	215	17	80	67	73
2037	4.46%	13	1	72	227	18	67	54	60
2038	4.46%	13	1	60	239	18	54	41	48
2039	2.23%	6	(2)	48	251	17	41	31	36
2040	0.00%	0	(5)	36	263	13	31	23	27
2041	0.00%	0	(5)	24	275	8	23	16	19
2042	0.00%	0	(5)	12	287	4	16	8	12
2043	0.00%	0	(5)	0	299	0	8	0	4

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (\$)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.34	0.62
2014	-5	3.00%	1.159	1.90%	15.99	9.24
2015	-4	3.00%	1.194	4.77%	39.61	37.05
2016	-3	3.00%	1.230	37.20%	311.87	221.77
2017	-2	3.00%	1.267	45.74%	420.27	393.84
2018	-1	3.00%	1.305	10.44%	58.79	335.38

100.00% 207.77

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(9) CUMULATIVE SPENDING W/PLANT AFUDC (\$K/W)	(10) DEBT AFUDC (\$K/W)	(11) CUMULATIVE DEBT AFUDC (\$K/W)	(12) YEARLY TOTAL AFUDC (\$K/W)	(13) CUMULATIVE TOTAL AFUDC (\$K/W)	(14) CONSTRUCTION PERIOD INTEREST (\$K/W)	(15) CUMULATIVE CPI (\$K/W)	(16) DEFERRED TAXES (\$K/W)	(17) CUMULATIVE DEFERRED TAXES (\$K/W)	(18) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(19) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	1.62	0.02	0.02	0.05	0.04	0.04	(0.01)	(0.01)	1.29	1.29	1.29
2014	-5	3.23	0.29	0.30	0.79	0.84	0.65	(0.14)	(0.15)	16.78	18.07	18.07
2015	-4	37.87	1.13	1.49	3.22	4.06	2.65	(0.37)	(0.72)	42.83	60.90	60.90
2016	-3	226.84	7.07	3.36	33.29	23.36	15.00	19.25	(1.41)	(4.15)	351.36	418.06
2017	-2	622.20	19.46	26.81	33.10	76.45	43.47	62.72	(9.50)	(13.39)	478.27	895.43
2018	-1	934.83	29.46	57.47	90.39	156.84	64.78	127.50	(13.63)	(27.82)	179.38	1,064.61

57.47

156.84

127.50

(27.02)

1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	715.388855
AFUDC RATE	8.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASE	255	255	255
SECURITY AFUDC	28	16	
DEBT AFUDC			36
TOTAL	283	271	291

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Solar Water Heating

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (\$/kWh)	AVOIDED MARGINAL FUEL COST (\$/kWh)	INCREASED MARGINAL FUEL COST (\$/kWh)	REPLACEMENT FUEL COST (\$/kWh)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	11	11	6.41	8.55	6.80	0.00	1.00	1.00
2011	54	54	6.25	8.15	6.70	0.00	1.00	1.00
2012	106	106	6.43	8.09	6.74	0.00	1.00	1.00
2013	169	169	7.06	8.17	7.28	0.00	1.00	1.00
2014	244	244	7.53	8.46	7.73	0.00	1.00	1.00
2015	244	244	8.11	9.29	8.37	0.00	1.00	1.00
2016	244	244	9.00	11.04	9.41	0.00	1.00	1.00
2017	244	244	9.75	12.12	10.17	0.00	1.00	1.00
2018	244	244	10.52	12.96	10.97	0.00	1.00	1.00
2019	244	244	11.50	14.57	12.08	10.41	1.00	1.00
2020	244	244	12.08	15.21	12.73	10.50	1.00	1.00
2021	244	244	12.57	15.76	13.24	10.74	1.00	1.00
2022	244	244	13.06	16.30	13.73	10.81	1.00	1.00
2023	244	244	13.39	16.34	14.04	10.80	1.00	1.00
2024	244	244	13.95	16.98	14.51	10.84	1.00	1.00
2025	244	244	14.40	17.40	15.06	10.96	1.00	1.00
2026	244	244	14.70	17.53	15.33	11.05	1.00	1.00
2027	244	244	15.13	17.74	15.73	11.17	1.00	1.00
2028	244	244	15.60	18.09	16.17	11.36	1.00	1.00
2029	244	244	16.02	18.18	16.55	11.41	1.00	1.00
2030	244	244	16.52	18.60	17.03	11.59	1.00	1.00
2031	244	244	17.08	19.21	17.39	11.80	1.00	1.00
2032	244	244	17.50	19.14	17.93	11.88	1.00	1.00
2033	244	244	18.27	19.86	18.58	12.10	1.00	1.00
2034	244	244	18.73	19.76	18.91	12.14	1.00	1.00
2035	244	244	19.57	20.92	19.82	12.29	1.00	1.00
2036	244	244	20.40	21.89	20.62	12.55	1.00	1.00
2037	244	244	21.11	22.47	21.51	12.70	1.00	1.00
2038	244	244	22.02	23.40	22.23	13.04	1.00	1.00
2039	244	244	22.78	24.05	22.95	13.32	1.00	1.00
2040	244	244	23.59	24.67	23.74	13.44	1.00	1.00
2041	244	244	24.54	25.60	24.68	13.73	1.00	1.00
2042	244	244	25.50	26.54	25.65	14.10	1.00	1.00
2043	244	244	26.74	28.19	26.92	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

RESIDENTIAL PHOTOVOLTAICS

INPUT DATA - PART 1 CONTINUED
PROGRAM/METER/CD SELECTED: REV_REQ
PROGRAM NAME: Residential Photovoltaic (PV)

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	1.45 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.94 KW
(3) KW/LINE LOSS PERCENTAGE	2.65 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	5.7168 KVA
(5) KW/LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	3.00 KVA

II. ECONOMIC LIFE & X FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) X FACTOR FOR GENERATION	1.70758
(5) X FACTOR FOR T & D	1.63254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %
(10) UTILITY DISCOUNT RATE	3.29 %
(11) UTILITY AFUDC RATE	8.48 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	125.32 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	57.66 \$/KW/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O & M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS\$/KW
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$ 23 CENTS PER KW-HR** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/MD
(4) DEMAND CHARGE ESCALATION RATE	*** %

INPUT DATA - PART 1 CONTINUED
PROGRAM/METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Photovoltaics (PV)

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2009	0	0	0	0	0	0	0	0	0	
2010	492	910	0	1,402	33	0	4,498	51	4,550	
2011	571	2,747	0	3,318	173	0	13,941	263	14,204	
2012	379	2,747	0	3,126	402	0	14,339	393	14,732	
2013	372	2,747	0	3,119	652	0	14,790	940	15,730	
2014	374	2,747	0	3,121	936	0	15,294	1,303	16,537	
2015	0	0	0	0	1,109	0	0	1,510	1,510	
2016	0	0	0	0	1,147	0	0	1,548	1,548	
2017	0	0	0	0	1,189	0	0	1,587	1,587	
2018	0	0	0	0	1,145	0	0	1,626	1,626	
2019	0	0	0	0	1,179	0	0	1,667	1,667	
2020	0	0	0	0	1,175	0	0	1,709	1,709	
2021	0	0	0	0	1,193	0	0	1,751	1,751	
2022	0	0	0	0	1,219	0	0	1,795	1,795	
2023	0	0	0	0	1,248	0	0	1,840	1,840	
2024	0	0	0	0	1,295	0	0	1,886	1,886	
2025	0	0	0	0	1,333	0	0	1,933	1,933	
2026	0	0	0	0	1,377	0	0	1,981	1,981	
2027	0	0	0	0	1,440	0	0	2,031	2,031	
2028	0	0	0	0	1,489	0	0	2,082	2,082	
2029	0	0	0	0	1,545	0	0	2,134	2,134	
2030	0	0	0	0	1,590	0	7,888	2,271	10,159	
2031	0	0	0	0	2,154	0	24,446	2,500	26,946	
2032	0	0	0	0	2,266	0	25,179	2,563	27,742	
2033	0	0	0	0	2,453	0	25,934	2,627	28,561	
2034	0	0	0	0	2,482	0	26,712	2,693	29,405	
2035	0	0	0	0	2,298	0	0	2,474	2,474	
2036	0	0	0	0	2,446	0	0	2,536	2,536	
2037	0	0	0	0	2,561	0	0	2,600	2,600	
2038	0	0	0	0	2,797	0	0	2,665	2,665	
2039	0	0	0	0	2,906	0	0	2,731	2,731	
2040	0	0	0	0	3,022	0	0	2,800	2,800	
2041	0	0	0	0	3,161	0	0	2,870	2,870	
2042	0	0	0	0	3,308	0	0	2,941	2,941	
2043	0	0	0	0	3,465	0	0	3,015	3,015	
2044	0	0	0	0	0	0	0	0	0	
2045	0	0	0	0	0	0	0	0	0	
2046	0	0	0	0	0	0	0	0	0	
2047	0	0	0	0	0	0	0	0	0	
2048	0	0	0	0	0	0	0	0	0	
2049	0	0	0	0	0	0	0	0	0	
2050	0	0	0	0	0	0	0	0	0	
2051	0	0	0	0	0	0	0	0	0	
2052	0	0	0	0	0	0	0	0	0	
2053	0	0	0	0	0	0	0	0	0	
2054	0	0	0	0	0	0	0	0	0	
2055	0	0	0	0	0	0	0	0	0	
2056	0	0	0	0	0	0	0	0	0	
2057	0	0	0	0	0	0	0	0	0	
2058	0	0	0	0	0	0	0	0	0	
2059	0	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	0	
2065	0	0	0	0	0	0	0	0	0	
2066	0	0	0	0	0	0	0	0	0	
2067	0	0	0	0	0	0	0	0	0	
2068	0	0	0	0	0	0	0	0	0	
2069	0	0	0	0	0	0	0	0	0	
2070	0	0	0	0	0	0	0	0	0	
2071	0	0	0	0	0	0	0	0	0	
2072	0	0	0	0	0	0	0	0	0	
2073	0	0	0	0	0	0	0	0	0	
2074	0	0	0	0	0	0	0	0	0	
2075	0	0	0	0	0	0	0	0	0	
2076	0	0	0	0	0	0	0	0	0	
2077	0	0	0	0	0	0	0	0	0	
2078	0	0	0	0	0	0	0	0	0	
2079	0	0	0	0	0	0	0	0	0	
2080	0	0	0	0	0	0	0	0	0	
2081	0	0	0	0	0	0	0	0	0	
2082	0	0	0	0	0	0	0	0	0	
2083	0	0	0	0	0	0	0	0	0	
2084	0	0	0	0	0	0	0	0	0	
2085	0	0	0	0	0	0	0	0	0	
2086	0	0	0	0	0	0	0	0	0	
2087	0	0	0	0	0	0	0	0	0	
2088	0	0	0	0	0	0	0	0	0	
2089	0	0	0	0	0	0	0	0	0	
2090	0	0	0	0	0	0	0	0	0	
2091	0	0	0	0	0	0	0	0	0	
2092	0	0	0	0	0	0	0	0	0	
2093	0	0	0	0	0	0	0	0	0	
2094	0	0	0	0	0	0	0	0	0	
2095	0	0	0	0	0	0	0	0	0	
2096	0	0	0	0	0	0	0	0	0	
2097	0	0	0	0	0	0	0	0	0	
2098	0	0	0	0	0	0	0	0	0	
2099	0	0	0	0	0	0	0	0	0	
2100	0	0	0	0	0	0	0	0	0	
NOM	2,188	11,899	0	14,087	58,526	0	172,982	67,514	0	240,496
NPV	1,734	9,020	0	10,754	11,680	0	62,655	15,178	0	77,833

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GENX FACTOR
PROGRAM METHOD SELECTED KEY REQ
PROGRAM NAME: Residential Photovoltaics (PV)

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REG-YEAR RATEBASE \$'(00)	DEBT \$'(00)	PREFERRED STOCK \$'(00)	COMMON EQUITY \$'(00)	INCOME TAXES \$'(00)	PROPERTY TAX \$'(00)	PROPERTY INSURANCE \$'(00)	DEFERRED TAXES \$'(00)	TOTAL FIXED CHARGES \$'(00)	PRESENT WORTH FIXED CHARGES \$'(00)	CUMULATIVE PW FIXED CHARGES \$'(00)	REPLACEMENT COST BASE FOR PROPERTY INSURANCE \$'(00)
2010	3,120	97	0	228	144	53	19	122	0	651	651	3,042
2020	2,898	93	0	209	39	30	19	122	48	632	580	3,119
2031	2,834	88	0	196	38	48	19	122	34	607	512	3,197
2032	2,681	83	0	187	37	46	20	122	28	583	451	3,276
2033	2,531	79	0	177	35	44	20	122	23	559	398	3,358
2034	2,387	74	0	167	34	42	21	122	18	537	351	3,441
2035	2,247	70	0	157	33	39	22	122	13	515	309	3,528
2036	2,113	66	0	147	31	37	22	122	9	494	272	3,617
2037	1,982	62	0	138	29	35	23	122	6	473	238	3,707
2038	1,852	58	0	129	28	33	23	122	4	453	210	3,800
2039	1,722	53	0	120	26	31	24	122	3	432	185	3,895
2030	1,592	49	0	111	25	28	24	122	2	412	161	3,992
2031	1,462	45	0	102	23	26	25	122	2	392	141	4,092
2032	1,331	41	0	93	22	24	26	122	2	371	125	4,194
2033	1,201	37	0	84	21	22	26	122	2	351	107	4,299
2034	1,071	33	0	75	20	20	27	122	2	330	92	4,406
2035	941	29	0	66	18	18	28	122	2	310	79	4,517
2036	811	25	0	57	17	15	28	122	2	290	68	4,629
2037	681	21	0	48	15	13	29	122	2	269	58	4,745
2038	551	17	0	38	13	11	30	122	2	249	49	4,864
2039	421	13	0	29	11	9	30	122	(7)	229	42	4,985
2040	317	10	0	22	9	7	31	122	(8)	212	36	5,110
2041	237	7	0	17	7	6	32	122	(8)	200	31	5,239
2042	158	5	0	11	5	5	33	122	(8)	187	26	5,372
2043	79	2	0	6	3	(0)	34	122	(8)	174	23	5,503

IN SERVICE COST (\$'000)	3,042
IN SERVICE YEAR	2019
BOOKLINE (YRS)	25
DEBT COVERAGE	38.5%
DISCOUNT RATE	8.9%
PROPERTY TAX	1.89%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	44%	7.63 %
P/S	0%	0.00 %
E/S	56%	12.50 %

K-FACTOR = $\frac{C/WFC}{IN-SVC COST} = 1.70735$

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Photovoltaics (PV)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS LEASE	(10)/(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	111	111	122	122	110	110	0	284	0	0	0	0	(77)
2020	7.22%	214	325	122	243	110	221	40	284	0	0	0	40	(37)
2021	6.68%	198	522	122	365	110	331	34	284	0	0	0	34	(3)
2022	6.18%	183	705	122	487	110	441	28	284	0	0	0	28	24
2023	5.71%	169	874	122	608	110	552	23	284	0	0	0	23	47
2024	5.29%	156	1,030	122	730	110	662	18	284	0	0	0	18	65
2025	4.89%	145	1,175	122	852	110	772	13	284	0	0	0	13	78
2026	4.52%	134	1,309	122	974	110	883	9	284	0	0	0	9	87
2027	4.16%	122	1,441	122	1,095	110	993	5	284	0	0	0	5	95
2028	4.46%	132	1,573	122	1,217	110	1,103	3	284	0	0	0	3	104
2029	4.46%	132	1,705	122	1,339	110	1,214	3	284	0	0	0	3	112
2030	4.46%	132	1,837	122	1,460	110	1,324	3	284	0	0	0	3	121
2031	4.46%	132	1,969	122	1,582	110	1,434	3	284	0	0	0	3	129
2032	4.46%	132	2,101	122	1,704	110	1,545	3	284	0	0	0	3	137
2033	4.46%	132	2,233	122	1,825	110	1,655	3	284	0	0	0	3	146
2034	4.46%	132	2,365	122	1,947	110	1,765	3	284	0	0	0	3	154
2035	4.46%	132	2,497	122	2,069	110	1,876	3	284	0	0	0	3	162
2036	4.46%	132	2,629	122	2,191	110	1,986	3	284	0	0	0	3	171
2037	4.46%	132	2,761	122	2,312	110	2,096	3	284	0	0	0	3	179
2038	4.46%	132	2,893	122	2,434	110	2,207	3	284	0	0	0	3	187
2039	2.23%	66	2,959	122	2,556	110	2,317	(17)	284	0	0	0	(17)	170
2040	0.00%	0	2,959	122	2,677	110	2,427	(63)	284	0	0	0	(63)	128
2041	0.00%	0	2,959	122	2,799	110	2,538	(63)	284	0	0	0	(63)	65
2042	0.00%	0	2,959	122	2,921	110	2,648	(63)	284	0	0	0	(63)	(3)
2043	0.00%	0	2,959	122	3,042	110	2,758	(63)	284	0	0	0	(63)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2020
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(77)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	284
BOOK DEPR RATE - USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: RSY_RRQ
 PROGRAM NAME: Residential Photovoltaics (PV)

(1)	(2)	(3)	(4)	(5) END OF YEAR	(5)*	(5)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	NET PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2019	3.75%	111	0	2,921	122	(77)	3,120	2,998	3,029
2020	7.22%	214	46	2,709	263	(37)	2,998	2,836	2,917
2021	6.68%	198	34	2,677	365	(4)	2,836	2,681	2,739
2022	6.18%	183	28	2,556	487	24	2,681	2,531	2,606
2023	5.71%	169	23	2,434	608	47	2,531	2,387	2,459
2024	5.29%	156	18	2,312	730	63	2,387	2,247	2,317
2025	4.89%	145	13	2,191	852	78	2,247	2,113	2,188
2026	4.52%	134	9	2,069	974	87	2,113	1,982	2,047
2027	4.18%	132	8	1,947	1,095	95	1,982	1,852	1,917
2028	4.46%	132	8	1,825	1,217	104	1,852	1,722	1,787
2029	4.46%	132	8	1,704	1,339	112	1,722	1,592	1,657
2030	4.46%	132	8	1,582	1,460	121	1,592	1,462	1,527
2031	4.46%	132	8	1,460	1,582	129	1,462	1,331	1,397
2032	4.46%	132	8	1,339	1,704	137	1,331	1,201	1,266
2033	4.46%	132	8	1,217	1,825	146	1,201	1,071	1,136
2034	4.46%	132	8	1,095	1,947	154	1,071	941	1,006
2035	4.46%	132	8	974	2,069	162	941	811	876
2036	4.46%	132	8	852	2,191	171	811	681	746
2037	4.46%	132	8	730	2,312	179	681	551	616
2038	4.46%	132	8	608	2,434	187	551	421	486
2039	2.23%	66	(17)	487	2,556	170	421	317	369
2040	0.00%	0	(43)	365	2,677	128	317	237	277
2041	0.00%	0	(43)	243	2,799	85	237	158	198
2042	0.00%	0	(43)	122	2,921	43	158	79	119
2043	0.00%	0	(43)	(0)	3,042	0	79	0	40

* Column not specified in worksheet

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/KW)	(7) CUMULATIVE AVERAGE SPENDING (\$/KW)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.62
2014	-5	3.00%	1.159	1.50%	15.39	3.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	426.27	593.84
2018	-1	3.00%	1.305	10.44%	58.79	858.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) CUMULATIVE SPENDING WITH AFUDC (\$/KW)	(4) DEBT AFUDC (\$/KW)	(5) CUMULATIVE DEBT AFUDC (\$/KW)	(6) YEARLY TOTAL AFUDC (\$/KW)	(7) CUMULATIVE TOTAL AFUDC (\$/KW)	(8) CONSTRUCTION PERIOD INTEREST (\$/KW)	(9) CUMULATIVE CFI (\$/KW)	(10) DEFERRED TAXES (\$/KW)	(11) CUMULATIVE DEFERRED TAXES (\$/KW)	(12) INCREMENTAL YEAR-END BOOK VALUE (\$/KW)	(13) CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.02	0.02	0.05	0.05	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	5.29	0.29	0.30	0.79	0.84	0.65	0.70	(0.14)	(0.15)	16.78	18.07
2015	-4	37.37	1.18	1.40	3.22	4.36	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.34	7.07	8.56	19.29	23.36	15.90	19.25	(3.41)	(4.23)	351.16	412.96
2017	-2	622.20	19.46	28.01	53.10	76.45	43.47	62.72	(9.26)	(13.33)	493.37	885.43
2018	-1	534.33	29.46	57.47	30.39	156.84	64.78	127.50	(13.63)	(27.62)	179.18	1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,380,855
AFUDC RATE	3.48%

	57.47	156.84	127.50	(27.62)	1,064.61
	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS		
CONSTRUCTION CASE	2,594	2,394	2,594		
EQUITY AFUDC	284				
DEBT AFUDC	164	164			
CFI			364		
TOTAL	3,042	2,558	2,958		

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM/METHOD SELECTED: RSV_RBO
 PROGRAM/NAME: Residential Photovoltaics (PV)

(1) YEAR	(2) COMPLIANT TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED COMPLIANT PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/kWh)	(5) AVOIDED MARGINAL FUEL COST (\$/kWh)	(6) INCREASED MARGINAL FUEL COST (\$/kWh)	(7) REPLACEMENT FUEL COST (\$/kWh)	(8) PROGRAM/KW EFFECTIVENESS FACTOR	(9) PROGRAM/KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	0.99	0.99
2010	113	113	6.41	8.02	6.98	0.00	0.99	0.99
2011	459	459	6.55	7.75	6.96	0.00	0.98	0.98
2012	790	790	6.43	7.77	6.88	0.00	0.97	0.97
2013	1,135	1,135	7.06	7.94	7.28	0.00	0.97	0.97
2014	1,473	1,473	7.53	8.28	7.80	0.00	0.96	0.96
2015	1,473	1,473	8.11	9.65	8.45	0.00	0.96	0.96
2016	1,473	1,473	9.00	10.60	9.54	0.00	0.95	0.95
2017	1,473	1,473	9.75	11.66	10.31	0.00	0.94	0.94
2018	1,473	1,473	10.52	12.51	11.12	0.00	0.94	0.94
2019	1,473	1,473	11.50	14.01	12.28	10.41	0.93	0.93
2020	1,473	1,473	12.08	14.63	12.92	10.50	0.92	0.92
2021	1,473	1,473	12.57	15.24	13.43	10.74	0.92	0.92
2022	1,473	1,473	13.06	15.79	13.87	10.81	0.91	0.91
2023	1,473	1,473	13.59	16.27	14.16	10.80	0.91	0.91
2024	1,473	1,473	13.95	16.47	14.74	10.84	0.90	0.90
2025	1,473	1,473	14.40	16.90	15.19	10.96	0.90	0.90
2026	1,473	1,473	14.70	17.06	15.45	11.05	0.89	0.89
2027	1,473	1,473	15.13	17.30	15.84	11.17	0.89	0.89
2028	1,473	1,473	15.60	17.77	16.26	11.26	0.88	0.88
2029	1,473	1,473	16.02	17.90	16.62	11.41	0.87	0.87
2030	1,473	1,473	16.52	18.19	17.15	11.59	1.00	1.00
2031	1,473	1,473	17.08	18.66	17.77	11.90	0.99	0.99
2032	1,473	1,473	17.50	18.74	18.07	11.88	0.99	0.99
2033	1,473	1,473	18.27	19.43	18.74	12.10	0.98	0.98
2034	1,473	1,473	18.70	19.53	19.02	12.14	0.97	0.97
2035	1,473	1,473	19.57	20.59	19.54	12.29	0.97	0.97
2036	1,473	1,473	20.46	21.53	20.73	12.55	0.96	0.96
2037	1,473	1,473	21.11	22.14	21.43	12.70	0.96	0.96
2038	1,473	1,473	22.02	23.06	22.36	13.04	1.00	1.00
2039	1,473	1,473	22.78	23.71	23.11	13.32	0.99	0.99
2040	1,473	1,473	23.59	24.40	23.89	13.44	0.99	0.99
2041	1,473	1,473	24.54	25.33	24.82	13.75	0.98	0.98
2042	1,473	1,473	25.30	25.90	25.73	14.10	0.97	0.97
2043	1,473	1,473	26.74	27.34	27.07	14.40	0.97	0.97
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

BUSINESS PHOTOVOLTAICS

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.86 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.15 KW
(3) KW LINE LOSS PERCENTAGE	8.64 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	3,294.93 KVA
(5) KVA LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.02
(7) CUSTOMER KVA INCREASE AT METER	3.00 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	15 YEARS
(4) K FACTOR FOR GENERATION	1.7978
(5) K FACTOR FOR T & D	1.0034

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	\$39 %
(11) UTILITY AFUDC RATE	\$48 %
(12) UTILITY NONRECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.32 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.04 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.06 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS\$/KW
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$23 CENTS PER KVA** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW&O
(4) DEMAND CHARGE ESCALATION RATE	*** %

CALCULATION OF GENK FACTOR
 PROGRAM/METHOD SELECTED REV_NBO
 PROGRAMNAME: Business Photovoltaics (PV)

YEAR	(2) REG-YEAR RATEBASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) PROPERTY TAX \$(000)	(8) PROPERTY INSURANCE \$(000)	(9) DEPRRC. \$(000)	(10) DEFERRED TAXES \$(000)	(11) TOTAL FIXED CHARGES \$(000)	(12) PRESENT WORTH FIXED CHARGES \$(000)	(13) CUMULATIVE PW/FIXED CHARGES \$(000)	(14) REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	2,661	83	0	185	122	43	16	104	0	355	355	355	2,893
2020	2,537	79	0	178	84	43	16	104	94	339	495	1,050	2,660
2021	2,419	75	0	169	83	41	17	104	29	318	437	1,487	2,726
2022	2,286	71	0	160	82	39	17	104	24	297	385	1,872	2,794
2023	2,159	67	0	151	81	37	17	104	19	277	339	2,211	2,864
2024	2,036	63	0	142	80	35	18	104	15	258	299	2,510	2,936
2025	1,917	60	0	134	79	34	18	104	11	239	263	2,774	3,009
2026	1,802	56	0	126	77	32	19	104	8	221	232	3,004	3,084
2027	1,691	53	0	118	75	30	19	104	7	204	204	3,210	3,161
2028	1,579	49	0	110	68	28	20	104	7	186	179	3,389	3,240
2029	1,468	46	0	102	63	26	20	104	7	169	157	3,547	3,321
2030	1,357	42	0	95	58	24	21	104	7	151	138	3,685	3,404
2031	1,246	39	0	87	54	22	21	104	7	134	126	3,803	3,488
2032	1,136	35	0	79	49	21	22	104	7	117	105	3,909	3,577
2033	1,025	32	0	72	44	19	22	104	7	99	91	4,000	3,666
2034	914	28	0	64	39	17	23	104	7	82	79	4,079	3,758
2035	803	25	0	56	34	15	23	104	7	64	68	4,147	3,852
2036	692	21	0	48	29	13	24	104	7	47	58	4,205	3,948
2037	581	18	0	41	24	11	25	104	7	30	50	4,254	4,047
2038	470	15	0	33	20	9	25	104	7	13	42	4,296	4,148
2039	359	11	0	25	16	7	26	104	(15)	15	36	4,332	4,252
2040	270	8	0	19	12	6	27	104	(36)	181	30	4,362	4,358
2041	202	6	0	14	9	4	27	104	(36)	170	26	4,388	4,467
2042	135	4	0	9	6	2	28	104	(36)	159	22	4,411	4,579
2043	67	2	0	5	4	(0)	29	104	(36)	148	19	4,430	4,696

IN SERVICE COST (\$000)	2,595
IN SERVICE YEAR	2019
BOOK LIES (YRS)	25
EFREC. TAX RATE	38.57%
DISCOUNT RATE	8.5%
PROPERTY TAX	1.800%
PROPERTY INSURANCE	0.61%

SOURCE	WEIGHT	COST
DEBT	40%	7.00%
P/E	6%	8.00%
CS	50%	12.50%

K-FACTOR = CR*WFC / IN-SVC COST = 1.70738

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM(METHOD SELECTED): REV_REQ
 PROGRAM NAME: Business Electronics (P7)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 11.3%	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	55	55	104	104	54	54	0	242	0	0	0	0	(69)
2020	7.22%	182	237	104	208	54	158	54	242	0	0	0	34	(20)
2021	6.62%	168	445	104	311	54	282	29	242	0	0	0	29	(5)
2022	6.18%	156	601	104	415	54	376	24	242	0	0	0	24	21
2023	5.71%	144	745	104	519	54	471	19	242	0	0	0	19	48
2024	5.29%	133	879	104	623	54	565	15	242	0	0	0	15	55
2025	4.89%	123	1,002	104	727	54	659	11	242	0	0	0	11	67
2026	4.52%	114	1,116	104	830	54	753	8	242	0	0	0	8	74
2027	4.18%	113	1,229	104	934	54	847	7	242	0	0	0	7	81
2028	4.46%	113	1,341	104	1,038	54	941	7	242	0	0	0	7	89
2029	4.46%	113	1,454	104	1,142	54	1,035	7	242	0	0	0	7	96
2030	4.46%	113	1,566	104	1,245	54	1,129	7	242	0	0	0	7	103
2031	4.46%	113	1,679	104	1,349	54	1,223	7	242	0	0	0	7	110
2032	4.46%	113	1,792	104	1,453	54	1,317	7	242	0	0	0	7	117
2033	4.46%	113	1,904	104	1,557	54	1,412	7	242	0	0	0	7	124
2034	4.46%	113	2,017	104	1,661	54	1,506	7	242	0	0	0	7	131
2035	4.46%	113	2,129	104	1,764	54	1,600	7	242	0	0	0	7	138
2036	4.46%	113	2,242	104	1,868	54	1,694	7	242	0	0	0	7	146
2037	4.46%	113	2,354	104	1,972	54	1,788	7	242	0	0	0	7	153
2038	4.46%	113	2,467	104	2,076	54	1,882	7	242	0	0	0	7	160
2039	2.23%	56	2,523	104	2,180	54	1,976	(15)	242	0	0	0	(15)	145
2040	0.00%	0	2,523	104	2,283	54	2,070	(5)	242	0	0	0	(5)	149
2041	0.00%	0	2,523	104	2,387	54	2,164	(5)	242	0	0	0	(5)	75
2042	0.00%	0	2,523	104	2,491	54	2,258	(5)	242	0	0	0	(5)	36
2043	0.00%	0	2,523	104	2,595	54	2,353	(5)	242	0	0	0	(5)	0

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(66)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	242
BOOK DEPR RATE - 1/USEFUL LIFE	4.89%

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM/REGISTERED SELECTED REV. REQ.
 PROGRAM NAME Business Equipment (PV)

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE-BASE \$(000)
2019	3.75%	95	0	2,491	104	(66)	2,661	2,537	2,609
2020	7.25%	132	34	2,367	268	(36)	2,337	2,419	2,488
2021	6.68%	168	29	2,203	311	(9)	2,419	2,286	2,323
2022	6.18%	156	24	2,180	415	21	2,286	2,159	2,223
2023	5.73%	144	19	2,076	519	40	2,159	2,036	2,097
2024	5.29%	133	15	1,972	623	55	2,036	1,917	1,976
2025	4.89%	121	11	1,868	727	67	1,917	1,802	1,859
2026	4.52%	114	9	1,764	830	74	1,802	1,689	1,746
2027	4.46%	113	7	1,661	934	81	1,689	1,579	1,635
2028	4.46%	113	7	1,557	1,038	89	1,579	1,468	1,524
2029	4.46%	113	7	1,453	1,142	96	1,468	1,357	1,413
2030	4.46%	113	7	1,349	1,245	103	1,357	1,246	1,302
2031	4.46%	113	7	1,245	1,349	110	1,246	1,136	1,191
2032	4.46%	113	7	1,142	1,453	117	1,136	1,025	1,080
2033	4.46%	113	7	1,038	1,557	124	1,025	914	969
2034	4.46%	113	7	934	1,661	131	914	803	858
2035	4.46%	113	7	830	1,764	138	803	692	747
2036	4.46%	113	7	727	1,868	146	692	581	636
2037	4.46%	113	7	623	1,972	153	581	470	525
2038	4.46%	113	7	519	2,076	160	470	359	415
2039	2.23%	56	(15)	415	2,180	145	359	270	315
2040	0.00%	0	(36)	311	2,283	109	270	202	236
2041	0.00%	0	(36)	208	2,387	73	202	135	169
2042	0.00%	0	(36)	104	2,491	36	135	67	101
2043	0.00%	0	(36)	(0)	2,595	0	67	0	34

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	3.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.62
2014	-5	3.00%	1.159	1.90%	15.39	9.24
2015	-4	3.00%	1.194	4.57%	29.61	37.03
2016	-3	3.00%	1.230	37.20%	331.37	222.77
2017	-2	3.00%	1.267	45.78%	420.27	398.84
2018	-1	3.00%	1.305	10.44%	98.79	858.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(8)		(9)		(10) CONSTRUCTION PERIOD INTEREST (\$K/W)	(11) CUMULATIVE CFI (\$K/W)	(12) DEFERRED TAXES (\$K/W)	(13) CUMULATIVE DEFERRED TAXES (\$K/W)	(14) CUMULATIVE INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(15) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
		(8a) SPENDING WITH AFUDC (\$K/W)	(8b) DEBT AFUDC (\$K/W)	(9a) TOTAL AFUDC (\$K/W)	(9b) TOTAL AFUDC (\$K/W)						
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.02	0.65	0.65	0.04	0.79	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	9.58	9.58	2.65	3.25	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	39.05	39.05	19.25	51.80	(3.41)	(3.43)	351.16	412.06
2016	-3	226.84	7.07	233.91	233.91	40.47	62.72	(9.28)	(12.39)	473.37	885.43
2017	-2	622.20	19.46	641.66	641.66	107.50	170.22	(13.63)	(27.02)	178.18	1,064.61
2018	-1	934.53	29.46	963.99	963.99						

	57.47	156.84	127.50	(22.02)	1,064.61																								
IN SERVICE YEAR: 2019 PLANT COSTS: 725,389,965 AFUDC RATE: 3.48%	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>BOOK BASIS</th> <th>BOOK BASIS FOR DEF TAX</th> <th>TACR BASIS</th> </tr> </thead> <tbody> <tr> <td>CONSTRUCTION CASH</td> <td style="text-align: right;">2,212</td> <td style="text-align: right;">2,212</td> <td style="text-align: right;">2,212</td> </tr> <tr> <td>EQUITY AFUDC</td> <td style="text-align: right;">942</td> <td></td> <td></td> </tr> <tr> <td>DEBT AFUDC</td> <td style="text-align: right;">144</td> <td style="text-align: right;">144</td> <td></td> </tr> <tr> <td>CFI</td> <td></td> <td></td> <td style="text-align: right;">311</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right;">3,305</td> <td style="text-align: right;">2,356</td> <td style="text-align: right;">2,523</td> </tr> </tbody> </table>			BOOK BASIS	BOOK BASIS FOR DEF TAX	TACR BASIS	CONSTRUCTION CASH	2,212	2,212	2,212	EQUITY AFUDC	942			DEBT AFUDC	144	144		CFI			311	TOTAL	3,305	2,356	2,523			
	BOOK BASIS	BOOK BASIS FOR DEF TAX	TACR BASIS																										
CONSTRUCTION CASH	2,212	2,212	2,212																										
EQUITY AFUDC	942																												
DEBT AFUDC	144	144																											
CFI			311																										
TOTAL	3,305	2,356	2,523																										

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: KEY_REQ
 PROGRAM NAME: Business PhotoVolts (PV)

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6) INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAM KVA EFFECTIVENESS FACTOR	(9) PROGRAM KVA EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	0.00	0.00
2010	143	143	6.41	16.51	6.41	0.00	0.00	0.00
2011	592	592	6.35	10.38	6.35	0.00	0.00	0.00
2012	1,062	1,062	6.43	9.01	6.38	0.00	0.00	0.00
2013	1,567	1,567	7.06	8.30	7.25	0.00	1.00	1.00
2014	2,128	2,128	7.53	8.57	7.70	0.00	0.99	0.99
2015	2,128	2,128	8.11	9.53	8.32	0.00	0.99	0.99
2016	2,128	2,128	9.00	11.45	9.33	0.00	0.98	0.98
2017	2,128	2,128	9.73	12.59	10.08	0.00	0.97	0.97
2018	2,128	2,128	10.82	13.42	10.88	0.00	0.97	0.97
2019	2,128	2,128	11.50	15.12	10.88	0.00	0.96	0.96
2020	2,128	2,128	12.88	15.76	11.97	10.41	0.96	0.96
2021	2,128	2,128	12.57	16.36	12.60	10.50	0.95	0.95
2022	2,128	2,128	13.06	17.14	13.12	10.74	0.94	0.94
2023	2,128	2,128	13.38	17.16	13.59	10.81	0.94	0.94
2024	2,128	2,128	13.95	17.92	13.92	10.80	0.93	0.93
2025	2,128	2,128	14.40	18.22	14.67	10.84	0.92	0.92
2026	2,128	2,128	14.70	18.32	14.92	10.96	0.92	0.92
2027	2,128	2,128	15.15	18.54	15.19	11.05	0.91	0.91
2028	2,128	2,128	15.60	18.91	15.60	11.17	0.91	0.91
2029	2,128	2,128	16.02	18.85	16.05	11.34	0.90	0.90
2030	2,128	2,128	16.32	19.44	16.44	11.41	0.90	0.90
2031	2,128	2,128	17.06	20.04	17.45	11.59	0.89	0.89
2032	2,128	2,128	17.30	19.76	17.82	11.80	0.88	0.88
2033	2,128	2,128	18.27	20.32	18.49	11.88	0.88	0.88
2034	2,128	2,128	19.73	20.17	19.49	12.10	0.87	0.87
2035	2,128	2,128	19.57	21.50	19.85	12.16	0.87	0.87
2036	2,128	2,128	20.40	22.53	19.75	12.29	0.86	0.86
2037	2,128	2,128	21.11	23.85	20.33	12.55	0.86	0.86
2038	2,128	2,128	22.02	24.00	21.23	12.70	0.85	0.85
2039	2,128	2,128	22.78	24.74	22.15	13.04	0.84	0.84
2040	2,128	2,128	23.59	25.27	23.22	13.32	0.84	0.84
2041	2,128	2,128	24.54	26.14	23.66	13.44	0.83	0.83
2042	2,128	2,128	25.50	27.05	24.60	13.75	0.83	0.83
2043	2,128	2,128	26.74	28.95	26.83	14.10	0.82	0.82
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: KEY_REQ
 PROGRAM NAME: Business Photovoltaics (PV)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	268	0
2013	1	0	1	0	0	0	379	0
2014	6	2	7	0	0	1	544	0
2015	16	3	19	1	0	2	695	0
2016	15	5	20	1	1	2	841	0
2017	15	7	22	1	1	3	921	0
2018	14	8	22	1	2	3	974	0
2019	14	8	22	1	2	3	1,095	0
2020	13	9	22	1	2	3	1,122	0
2021	13	9	21	1	2	3	1,168	0
2022	12	9	21	1	2	3	1,217	0
2023	12	9	21	1	2	3	1,265	0
2024	11	9	21	1	2	3	1,293	0
2025	11	9	20	1	3	3	1,362	0
2026	11	10	20	1	3	3	1,357	0
2027	10	10	20	1	3	3	1,360	0
2028	10	10	20	1	3	3	1,275	0
2029	9	10	19	1	3	3	1,256	0
2030	9	10	19	1	3	3	1,287	0
2031	8	10	19	1	3	4	1,318	0
2032	8	11	19	1	3	4	1,282	0
2033	7	11	18	1	3	4	1,322	0
2034	7	11	18	1	3	4	1,281	0
2035	7	11	18	1	3	4	1,361	0
2036	6	11	18	1	3	4	1,415	0
2037	6	12	18	1	3	4	1,439	0
2038	6	12	18	1	3	4	1,498	0
2039	6	12	18	0	3	4	1,525	0
2040	6	12	18	0	3	4	1,542	0
2041	5	13	18	0	3	4	1,583	0
2042	5	13	18	0	3	4	1,626	0
2043	5	13	18	0	3	4	1,736	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
TDM	284	282	572	24	75	99	38,199	0
DPV	84	58	142	7	14	21	8,430	0

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

AVOIDED GENERATING EMISSION IMPACT
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Photovoltaics (PV)

YEAR	(2) AVOIDED GEN UNIT EMISSION BENEFIT \$(000)	(3) REPLACEMENT EMISSION COST \$(000)	(4) PROGRAM EMISSION BENEFIT \$(000)	(5) OFF-PEAK EMISSION PAYBACK COST \$(000)	(6) NET EMISSION BENEFIT \$(000)
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	1	0	1
2013	0	0	32	0	32
2014	0	0	59	0	59
2015	0	0	63	0	63
2016	0	0	72	0	72
2017	0	0	79	0	79
2018	0	0	85	0	85
2019	93	121	92	0	64
2020	141	183	99	0	58
2021	156	202	105	0	59
2022	182	235	117	0	64
2023	201	259	124	0	65
2024	211	298	137	0	70
2025	267	343	150	0	78
2026	296	378	157	0	75
2027	334	427	170	0	77
2028	367	467	183	0	83
2029	419	532	202	0	89
2030	465	590	217	0	92
2031	505	641	234	0	99
2032	556	704	251	0	104
2033	648	826	271	0	99
2034	718	907	291	0	102
2035	789	985	313	0	108
2036	851	1,073	337	0	113
2037	922	1,161	361	0	119
2038	1,000	1,263	388	0	125
2039	1,080	1,365	415	0	130
2040	1,167	1,475	444	0	135
2041	1,257	1,589	474	0	142
2042	1,257	1,589	506	0	134
2043	1,257	1,589	541	0	209
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
NOM	15,150	15,202	6,902	0	2,909
NPV	1,834	2,234	1,006	0	306

BUSINESS PHOTOVOLTAICS FOR SCHOOLS

INPUT DATA - PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Business Photovoltaics for Schools

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KWH REDUCTION AT METER	0.86 KWH
(2) GENERATOR KWH REDUCTION PER CUSTOMER	2.15 KWH
(3) KWH LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KWH REDUCTION PER CUSTOMER	1394.95 KWH
(5) KWH LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.69 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7078
(5) K FACTOR FOR T & D	1.6324

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	8.89 %
(11) UTILITY AFDISC RATE	8.68 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2022-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.82 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O & M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KWH
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$ 23 CENTS PER KWH** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW&O
(4) DEMAND CHARGE ESCALATION RATE	*** %

CALCULATION OF GENK-FACTOR
 PROGRAM/METHOD SELECTED:REV_REQ
 PROGRAM/NAME: Budgets Philadelphia for Schools

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REG-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPRECIATION \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE FW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	227	7	0	17	11	4	1	9	0	49	49	49	231
2020	228	7	0	16	7	4	1	9	3	48	44	93	237
2021	215	7	0	15	7	4	1	9	3	46	39	132	243
2022	203	6	0	14	7	3	2	9	2	44	34	167	249
2023	192	6	0	13	7	3	2	9	2	42	30	197	255
2024	181	6	0	13	7	3	2	9	1	41	27	224	261
2025	171	5	0	12	7	3	2	9	1	39	23	247	268
2026	160	5	0	11	7	3	2	9	1	37	21	268	274
2027	150	5	0	10	6	3	2	9	1	36	18	286	281
2028	141	4	0	9	6	2	2	9	1	34	16	302	288
2029	131	4	0	8	6	2	2	9	1	33	14	316	296
2030	121	4	0	8	5	2	2	9	1	31	12	328	303
2031	111	3	0	7	5	2	2	9	1	30	11	339	311
2032	101	3	0	6	4	2	2	9	1	28	9	348	318
2033	91	3	0	6	4	2	2	9	1	27	8	356	326
2034	81	3	0	5	3	1	2	9	1	25	7	363	334
2035	71	2	0	5	3	1	2	9	1	24	6	369	343
2036	62	2	0	4	3	1	2	9	1	22	5	374	351
2037	52	2	0	4	2	1	2	9	1	20	4	379	360
2038	42	1	0	3	2	1	2	9	1	19	4	382	369
2039	32	1	0	2	3	1	2	9	(1)	17	3	386	378
2040	24	1	0	2	5	0	2	9	(3)	16	3	388	388
2041	18	1	0	1	5	0	2	9	(3)	15	2	391	398
2042	12	0	0	1	4	0	2	9	(3)	14	2	393	407
2043	6	0	0	0	4	(0)	3	9	(3)	13	2	394	418

IN SERVICE COST (\$000)	231
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
SEVIC. TAC RATE	38.57%
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

SOURCE	WEIGHT	COST
DEBT	44%	7.83%
P/R	0%	0.90%
CE	56%	12.50%

K-FACTOR = CPWFC / IN-SVC COST = 1.70738

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Photovoltaics for Schools

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFODC \$(000)	BOOK DEPR RATE MINUS 1/2 LIFE	(10)*(11) TAXRATE \$(000)	SALVAGE TAXRATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	8	8	9	9	8	8	0	22	0	0	0	0	(0)
2020	7.22%	16	25	9	18	8	17	3	22	0	0	0	3	(3)
2021	6.62%	15	40	9	28	8	25	3	22	0	0	0	3	(0)
2022	6.18%	14	54	9	37	8	33	2	22	0	0	0	2	2
2023	5.71%	13	66	9	46	8	42	2	22	0	0	0	2	4
2024	5.28%	12	78	9	55	8	50	1	22	0	0	0	1	5
2025	4.89%	11	89	9	65	8	59	1	22	0	0	0	1	6
2026	4.52%	10	99	9	74	8	67	1	22	0	0	0	1	7
2027	4.16%	10	109	9	83	8	75	1	22	0	0	0	1	7
2028	4.82%	10	119	9	92	8	84	1	22	0	0	0	1	8
2029	4.46%	10	129	9	102	8	92	1	22	0	0	0	1	9
2030	4.12%	10	139	9	111	8	100	1	22	0	0	0	1	9
2031	4.82%	10	149	9	120	8	108	1	22	0	0	0	1	10
2032	4.48%	10	159	9	129	8	117	1	22	0	0	0	1	10
2033	4.14%	10	169	9	139	8	126	1	22	0	0	0	1	11
2034	4.82%	10	179	9	148	8	134	1	22	0	0	0	1	12
2035	4.48%	10	189	9	157	8	143	1	22	0	0	0	1	12
2036	4.14%	10	199	9	166	8	151	1	22	0	0	0	1	13
2037	4.82%	10	209	9	176	8	159	1	22	0	0	0	1	14
2038	4.48%	10	219	9	185	8	167	1	22	0	0	0	1	14
2039	4.14%	10	229	9	195	8	176	(1)	22	0	0	0	(1)	13
2040	2.22%	5	225	9	204	8	184	(3)	22	0	0	0	(3)	10
2041	0.00%	0	225	9	212	8	193	(3)	22	0	0	0	(3)	6
2042	0.00%	0	225	9	222	8	201	(3)	22	0	0	0	(3)	3
2043	0.00%	0	225	9	231	8	209	(3)	22	0	0	0	(3)	0

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(5)
TOTAL EQUITY AFODC CAPITALIZED (SEE PAGE 5)	22
BOOK DEPR RATE - 1/2 USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM(METHOD SELECTED):REV_REQ
 PROGRAMNAME: Business Photovoltaics for Schools

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(6)* ACCUMULATED DEPRECIATION \$(000)	(6)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)						
2019	3.75%	8	0	222	9	(6)	237	238	232
2020	7.22%	16	3	212	18	(3)	228	215	221
2021	6.88%	15	3	203	28	(0)	215	203	209
2022	6.38%	14	2	194	37	2	203	192	198
2023	5.71%	13	2	185	46	4	192	181	187
2024	5.28%	12	1	176	55	5	181	171	176
2025	4.89%	11	1	166	65	6	171	160	165
2026	4.52%	10	1	157	74	7	160	150	155
2027	4.40%	10	1	148	83	7	150	141	145
2028	4.40%	10	1	139	92	8	141	131	136
2029	4.40%	10	1	129	102	9	131	121	126
2030	4.40%	10	1	120	111	9	121	111	116
2031	4.40%	10	1	111	120	10	111	101	106
2032	4.40%	10	1	102	129	10	101	91	96
2033	4.40%	10	1	92	139	11	91	81	86
2034	4.40%	10	1	83	148	12	81	71	76
2035	4.40%	10	1	74	157	12	71	62	67
2036	4.40%	10	1	65	166	13	62	52	57
2037	4.40%	10	1	55	176	14	52	42	47
2038	4.40%	10	1	46	185	14	42	32	37
2039	2.23%	5	(1)	37	194	15	32	24	28
2040	0.00%	0	(3)	28	203	16	24	18	21
2041	0.00%	0	(2)	18	212	6	18	12	15
2042	0.00%	0	(3)	9	222	3	12	6	9
2043	0.00%	0	(3)	(0)	231	0	6	0	3

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (\$)	(6) ANNUAL SPENDING (\$/W)	(7) COMPLATIVE AVERAGE SPENDING (\$/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.04	0.62
2014	-5	3.00%	1.159	1.90%	15.59	9.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	393.84
2018	-1	3.00%	1.305	10.44%	58.79	838.38

YEAR	NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING W/DEBT AFUDC (\$/W)	(9) DEBT AFUDC (\$/W)	(10) CUMULATIVE DEBT AFUDC (\$/W)	(11) YEARLY TOTAL AFUDC (\$/W)	(12) CUMULATIVE TOTAL AFUDC (\$/W)	(13) CONSTRUCTION PERIOD INTEREST (\$/W)	(14) CUMULATIVE CPI (\$/W)	(15) DEFERRED TAXES (\$/W)	(16) CUMULATIVE DEFERRED TAXES (\$/W)	(17) INCREMENTAL YEAR-END BOOK VALUE (\$/W)	(18) CUMULATIVE YEAR-END BOOK VALUE (\$/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.00	0.62	0.65	0.65	0.00	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	0.30	0.79	0.84	0.65	0.70	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.87	8.56	19.29	23.26	15.90	19.25	(3.41)	(4.13)	351.16	412.06
2017	-2	622.20	19.46	28.01	51.10	76.45	43.47	62.72	(9.26)	(13.36)	473.57	885.63
2018	-1	904.53	29.46	37.47	80.39	156.84	64.78	127.50	(13.63)	(27.62)	179.18	1,064.61

IN SERVICE YEAR 2019 PLANT COSTS 725,389,605 AFUDC RATE 8.48%	57.47	156.84	127.50	(27.62)	1,064.61
	CONSTRUCTION GASH	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS	
EQUITY AFUDC	197	197	197		
DEBT AFUDC	12	12			
CPI			28		
TOTAL	209	209	225		

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Photovoltaics for Schools

(1)	(2)	(3)	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6)* INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAM KW EFFECTIVENESS FACTOR	(9) PROGRAM KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	0.00	0.00
2010	8	8	6.41	8.81	6.74	0.00	1.00	1.00
2011	55	55	6.35	8.34	6.64	0.00	0.99	0.99
2012	165	165	6.49	8.39	6.69	0.00	0.99	0.99
2013	152	152	7.06	8.38	7.25	0.00	0.98	0.98
2014	189	189	7.53	8.62	7.69	0.00	0.97	0.97
2015	189	189	8.11	9.53	8.32	0.00	0.97	0.97
2016	189	189	9.00	11.45	9.33	0.00	0.96	0.96
2017	189	189	9.75	12.39	10.08	0.00	0.96	0.96
2018	189	189	10.92	13.42	10.88	0.00	0.95	0.95
2019	189	189	11.50	14.12	11.97	10.41	0.94	0.94
2020	189	189	12.08	15.88	12.57	10.50	0.94	0.94
2021	189	189	12.57	16.83	13.08	10.74	0.93	0.93
2022	189	189	13.66	17.14	13.39	10.81	0.92	0.92
2023	189	189	13.39	17.16	13.92	10.80	0.92	0.92
2024	189	189	13.55	17.32	14.47	10.84	0.91	0.91
2025	189	189	14.40	18.22	14.92	10.96	0.91	0.91
2026	189	189	14.70	18.32	15.39	11.05	0.90	0.90
2027	189	189	15.13	18.54	15.60	11.17	0.90	0.90
2028	189	189	15.60	19.12	16.04	11.36	0.89	0.89
2029	189	189	16.02	19.64	16.42	11.41	0.88	0.88
2030	189	189	16.52	19.44	16.90	11.39	0.88	0.88
2031	189	189	17.08	20.04	17.45	11.80	0.87	0.87
2032	189	189	17.50	19.76	17.82	11.88	0.87	0.87
2033	189	189	18.27	20.52	18.49	12.10	0.86	0.86
2034	189	189	18.79	20.17	18.85	12.14	0.86	0.86
2035	189	189	19.57	21.50	19.73	12.29	0.85	0.85
2036	189	189	20.40	22.53	20.55	12.55	0.84	0.84
2037	189	189	21.11	23.18	21.22	12.70	0.84	0.84
2038	189	189	22.02	24.15	22.14	13.04	0.83	0.83
2039	189	189	22.78	24.74	22.87	13.32	0.83	0.83
2040	189	189	23.39	25.27	23.66	13.44	0.82	0.82
2041	189	189	24.54	26.14	24.60	13.75	0.82	0.82
2042	189	189	25.50	27.05	25.57	14.10	0.81	0.81
2043	189	189	26.74	28.55	26.83	14.40	0.81	0.81
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

RESIDENTIAL AIR CONDITIONING

INPUT DATA - PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Air-Conditioning

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.50 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.67 KW
(3) KW LINE LOSS PERCENTAGE	3.66 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	1.1227 KVA
(5) KVA LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.00 KVA

II. ECONOMIC LIFE & X FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) X FACTOR FOR GENERATION	1.7078
(5) X FACTOR FOR T & D	1.6324

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATE	*** %**
(10) UTILITY DISCOUNT RATE	5.89 %
(11) UTILITY AFD CRATE	5.48 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
--- PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.59 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.84 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.186 CENTS/KVA
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$ 23 CENTS PER KW-hr ** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

CALCULATION OF GENEX-FACTOR
PROGRAM/METHOD SELECTED KEY_REQ
PROGRAM/NAME: Residential Air-Conditioning

YEAR	(2) REG-YEAR RAISE-BASE \$(000)	(3) INERT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) PROPERTY TAX \$(000)	(8) PROPERTY INSURANCE \$(000)	(9) DEPRHC. \$(000)	(10) DEFERRED TAXES \$(000)	(11) TOTAL FIXED CHARGES \$(000)	(12) PRESENT WORLD FIXED CHARGES \$(000)	(13) CUMULATIVE PW FIXED CHARGES \$(000)	(14) REPLACEMENT COST-BASE FOR PROPERTY INSURANCE \$(000)
2019	536,346	16,049	0	36,034	23,772	3,782	3,972	20,143	39	107,801	107,801	107,801	503,567
2020	496,164	15,413	0	34,626	14,334	3,339	3,149	20,143	6,592	104,295	96,039	203,839	516,156
2021	469,430	14,382	0	32,760	16,186	7,976	3,227	20,143	5,568	100,443	84,717	288,576	529,060
2022	443,719	13,784	0	30,966	15,998	7,634	3,308	20,143	4,629	96,442	74,703	363,280	542,286
2023	418,947	13,014	0	29,237	15,795	7,251	3,391	20,143	3,747	92,578	65,858	429,137	555,944
2024	395,697	12,222	0	27,579	15,586	6,889	3,475	20,143	2,938	88,844	58,043	487,180	569,748
2025	373,976	11,535	0	25,959	15,365	6,526	3,562	20,143	2,189	85,229	51,137	538,317	583,983
2026	349,645	10,861	0	24,401	15,007	6,164	3,651	20,143	1,497	81,794	45,032	581,349	598,583
2027	328,005	10,189	0	22,891	14,173	5,801	3,743	20,143	1,384	78,322	39,635	622,984	613,547
2028	306,479	9,521	0	21,388	13,231	5,439	3,836	20,143	1,382	74,939	34,823	657,812	628,886
2029	284,954	8,852	0	20,886	12,283	5,076	3,932	20,143	1,384	71,558	30,542	688,355	644,638
2030	263,427	8,183	0	18,384	11,344	4,713	4,030	20,143	1,382	68,179	26,725	715,080	660,723
2031	241,903	7,515	0	16,882	10,399	4,351	4,131	20,143	1,384	64,803	23,329	738,408	677,241
2032	220,376	6,846	0	15,380	9,457	3,988	4,234	20,143	1,382	61,430	20,349	758,718	694,172
2033	198,852	6,177	0	13,877	8,512	3,625	4,340	20,143	1,384	58,059	17,628	776,347	711,527
2034	177,325	5,508	0	12,375	7,570	3,263	4,449	20,143	1,382	54,690	15,250	791,597	729,315
2035	155,800	4,840	0	10,873	6,625	2,901	4,560	20,143	1,384	51,325	13,144	804,741	747,548
2036	134,274	4,171	0	9,371	5,684	2,538	4,674	20,143	1,382	47,962	11,280	816,021	766,236
2037	112,749	3,502	0	7,868	4,738	2,175	4,791	20,143	1,384	44,602	9,634	825,655	785,392
2038	91,223	2,834	0	6,366	3,797	1,813	4,911	20,143	1,382	41,245	8,182	833,836	805,027
2039	69,698	2,165	0	4,864	2,856	1,450	5,033	20,143	(2,830)	37,891	6,903	840,739	825,153
2040	52,385	1,627	0	3,656	1,821	1,088	5,159	20,143	(7,045)	35,149	5,881	846,620	845,782
2041	36,288	1,220	0	2,742	9,947	725	5,288	20,143	(7,045)	33,021	5,074	851,693	866,926
2042	26,190	814	0	1,828	5,373	363	5,429	20,143	(7,045)	30,896	4,380	856,653	888,399
2043	13,092	497	0	914	5,799	0	5,566	20,143	(7,045)	28,774	3,729	859,782	910,814

IN SERVICE COST (\$000)	903,567
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
DEPRC. TAX RATE	38.5%
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	6.61%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEPRC	40%	7.00
E/E	0%	0.00
C/S	60%	12.50

EX-FACTOR = CPWFC / IN-SVC COST = 1.70728

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_NEQ
 PROGRAM NAME: Residential Aho-Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK/DEPR RATE	(10) ¹ (11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2017	3.75%	18,363	18,363	20,143	20,143	18,263	18,263	39	47,003	0	0	0	39	(22,790)
2020	7.22%	35,351	53,714	20,143	46,285	18,263	34,525	6,592	47,003	0	0	0	6,592	(6,148)
2021	6.68%	32,697	86,411	20,143	60,428	18,263	54,788	5,568	47,003	0	0	0	5,568	(589)
2022	6.18%	30,263	116,674	20,143	80,571	18,263	73,050	4,829	47,003	0	0	0	4,829	4,889
2023	5.71%	27,976	144,650	20,143	100,713	18,263	91,313	3,747	47,003	0	0	0	3,747	7,796
2024	5.29%	25,880	178,530	20,143	126,856	18,263	109,575	2,938	47,003	0	0	0	2,938	18,234
2025	4.89%	23,936	194,466	20,143	149,999	18,263	127,838	2,189	47,003	0	0	0	2,189	22,923
2026	4.52%	22,144	216,610	20,143	161,341	18,263	146,100	1,497	47,003	0	0	0	1,497	14,420
2027	4.18%	21,850	238,460	20,143	181,294	18,263	164,363	1,384	47,003	0	0	0	1,384	15,804
2028	4.46%	21,845	260,305	20,143	201,427	18,263	184,626	1,382	47,003	0	0	0	1,382	17,186
2029	4.46%	21,845	282,153	20,143	221,569	18,263	200,888	1,384	47,003	0	0	0	1,384	18,570
2030	4.46%	21,845	304,000	20,143	241,712	18,263	219,151	1,382	47,003	0	0	0	1,382	19,952
2031	4.46%	21,845	325,845	20,143	261,855	18,263	237,413	1,384	47,003	0	0	0	1,384	21,336
2032	4.46%	21,845	347,693	20,143	281,997	18,263	255,676	1,382	47,003	0	0	0	1,382	22,718
2033	4.46%	21,850	369,545	20,143	302,140	18,263	273,938	1,384	47,003	0	0	0	1,384	24,102
2034	4.46%	21,845	391,390	20,143	322,283	18,263	292,201	1,382	47,003	0	0	0	1,382	25,484
2035	4.46%	21,850	413,240	20,143	342,425	18,263	310,464	1,384	47,003	0	0	0	1,384	26,867
2036	4.46%	21,845	435,086	20,143	362,568	18,263	328,726	1,382	47,003	0	0	0	1,382	28,249
2037	4.46%	21,850	456,936	20,143	382,711	18,263	346,989	1,384	47,003	0	0	0	1,384	29,633
2038	4.46%	21,845	478,781	20,143	402,853	18,263	365,251	1,382	47,003	0	0	0	1,382	31,015
2039	2.23%	10,923	489,706	20,143	422,996	18,263	383,514	(2,830)	47,003	0	0	0	(2,830)	28,185
2040	0.00%	0	489,706	20,143	443,139	18,263	401,776	(7,045)	47,003	0	0	0	(7,045)	21,140
2041	0.00%	0	489,706	20,143	463,281	18,263	420,039	(7,045)	47,003	0	0	0	(7,045)	14,095
2042	0.00%	0	489,706	20,143	483,424	18,263	438,301	(7,045)	47,003	0	0	0	(7,045)	7,050
2043	0.00%	0	489,706	20,143	503,567	18,263	456,564	(7,045)	47,003	0	0	0	(7,045)	6

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(12,779)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	47,003
BOOK DEPR RATE - USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residn Bal An-Conditioning

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)						
2019	3.75%	18,363	39	483,424	28,143	(12,740)	516,346	496,164	506,255
2020	7.22%	35,351	5,992	463,281	40,285	(6,148)	496,164	469,430	482,797
2021	6.68%	32,697	5,568	443,139	60,428	(580)	469,430	443,719	456,574
2022	6.18%	30,263	4,629	422,896	80,571	4,048	443,719	418,947	431,333
2023	5.71%	27,976	3,747	402,853	100,713	7,796	418,947	393,057	407,092
2024	5.29%	25,880	2,938	382,711	120,856	18,734	393,057	371,976	383,517
2025	4.89%	23,836	2,189	362,568	140,999	12,923	371,976	349,645	360,811
2026	4.52%	22,144	1,497	342,425	161,141	34,430	349,645	328,085	338,825
2027	4.18%	21,830	1,384	322,283	181,284	15,804	328,085	306,479	317,243
2028	4.46%	21,845	1,382	302,140	201,427	17,186	306,479	284,954	295,716
2029	4.46%	21,850	1,384	281,997	221,569	18,570	284,954	263,427	274,191
2030	4.46%	21,845	1,382	261,855	241,712	19,952	263,427	241,903	252,665
2031	4.46%	21,850	1,384	241,712	261,855	21,336	241,903	220,376	231,140
2032	4.46%	21,845	1,382	221,569	281,997	22,718	220,376	198,852	209,614
2033	4.46%	21,850	1,384	201,427	302,140	24,102	198,852	177,325	188,088
2034	4.46%	21,845	1,382	181,284	322,283	25,484	177,325	155,800	166,563
2035	4.46%	21,850	1,384	161,141	342,425	26,867	155,800	134,274	145,037
2036	4.46%	21,845	1,382	140,999	362,568	28,249	134,274	112,749	123,512
2037	4.46%	21,850	1,384	120,856	382,711	29,633	112,749	91,223	101,986
2038	4.46%	21,845	1,382	100,713	402,853	31,015	91,223	69,698	80,460
2039	2.23%	18,925	(2,830)	80,571	422,996	28,185	69,698	52,386	61,042
2040	0.00%	0	(7,845)	60,428	443,139	21,140	52,386	39,288	45,837
2041	0.00%	0	(7,845)	40,285	463,281	14,095	39,288	26,190	32,739
2042	0.00%	0	(7,845)	28,143	483,424	7,050	26,190	13,092	19,641
2043	0.00%	0	(7,845)	0	503,567	6	13,092	-5	6,543

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/KW)	(7) CUMULATIVE AVERAGE SPENDING (\$/KW)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.13%	1.24	0.62
2014	-5	3.00%	1.159	1.50%	15.99	9.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	398.84
2018	-1	3.00%	1.305	10.44%	98.79	838.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) CUMULATIVE SPENDING WITH AFUDC (\$/KW)	(8a)* DEBT AFUDC (\$/KW)	(8b)* CUMULATIVE DEBT AFUDC (\$/KW)	(9) YEARLY TOTAL AFUDC (\$/KW)	(9a)* TOTAL AFUDC (\$/KW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/KW)	(9c)* CUMULATIVE CPI (\$/KW)	(9d)* DEFERRED TAXES (\$/KW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/KW)	(10)	(11)
											INCREMENTAL YEAR-END BOOK VALUE (\$/KW)	CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.62	0.62	0.65	0.65	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	0.30	0.79	0.84	0.65	0.70	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.13	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	224.84	7.97	8.56	19.28	23.36	15.90	19.25	(3.41)	(4.13)	251.16	412.06
2017	-2	622.20	19.46	28.01	53.10	76.45	43.47	62.72	(9.26)	(13.39)	473.37	885.43
2018	-1	934.83	29.46	37.47	80.39	156.84	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

37.47 156.84 127.50 (27.02) 1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,369,805.5
AFUDC RATE	8.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	429,382	429,382	429,382
EQUITY AFUDC	47,003		
DEBT AFUDC	27,182	27,182	
CPI			61,309
TOTAL	503,567	456,564	489,691

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Air-Conditioning

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/kWh)	(5) AVOIDED MARGINAL FUEL COST (\$/kWh)	(6)* INCREASED MARGINAL FUEL COST (\$/kWh)	(7) REPLACEMENT FUEL COST (\$/kWh)	(8) PROGRAM KW EFFECTIVENESS FACTOR	(9) PROGRAM KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	81,604	81,604	6.41	9.01	6.70	0.00	1.00	1.00
2011	152,466	152,466	6.35	8.48	6.61	0.00	1.00	1.00
2012	232,680	232,680	6.43	8.45	6.66	0.00	1.00	1.00
2013	318,670	318,670	7.06	8.41	7.23	0.00	1.00	1.00
2014	408,118	408,118	7.53	8.67	7.68	0.00	1.00	1.00
2015	496,213	496,213	8.11	9.61	8.31	0.00	1.00	1.00
2016	578,537	578,537	9.00	11.55	9.31	0.00	1.00	1.00
2017	643,877	643,877	9.75	12.72	10.06	0.00	1.00	1.00
2018	702,497	702,497	10.52	13.53	10.86	0.00	1.00	1.00
2019	702,497	702,497	11.50	15.25	11.94	10.41	1.00	1.00
2020	702,497	702,497	12.08	15.88	12.57	10.50	1.00	1.00
2021	702,497	702,497	12.57	16.53	13.08	10.74	1.00	1.00
2022	702,497	702,497	13.06	17.14	13.59	10.81	1.00	1.00
2023	702,497	702,497	13.39	17.16	13.92	10.80	1.00	1.00
2024	702,497	702,497	13.95	17.82	14.47	10.94	1.00	1.00
2025	702,497	702,497	14.40	18.22	14.92	10.96	1.00	1.00
2026	702,497	702,497	14.70	18.32	15.19	11.05	1.00	1.00
2027	702,497	702,497	15.13	18.54	15.60	11.17	1.00	1.00
2028	702,497	702,497	15.60	18.91	16.05	11.36	1.00	1.00
2029	702,497	702,497	16.02	18.85	16.44	11.41	1.00	1.00
2030	702,497	702,497	16.52	19.26	16.92	11.59	1.00	1.00
2031	702,497	702,497	17.08	19.86	17.47	11.80	1.00	1.00
2032	702,497	702,497	17.50	19.62	17.84	11.88	1.00	1.00
2033	702,497	702,497	18.27	20.38	18.50	12.10	1.00	1.00
2034	702,497	702,497	18.73	20.08	18.86	12.14	1.00	1.00
2035	702,497	702,497	19.57	21.37	19.75	12.29	1.00	1.00
2036	702,497	702,497	20.40	22.39	20.54	12.55	1.00	1.00
2037	702,497	702,497	21.11	22.91	21.24	12.70	1.00	1.00
2038	702,497	702,497	22.82	23.86	22.16	13.04	1.00	1.00
2039	702,497	702,497	22.78	24.43	22.89	13.32	1.00	1.00
2040	702,497	702,497	23.59	25.04	23.68	13.44	1.00	1.00
2041	702,497	702,497	24.54	25.93	24.62	13.75	1.00	1.00
2042	702,497	702,497	25.50	26.84	25.59	14.10	1.00	1.00
2043	702,497	702,497	26.74	28.65	26.85	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

AVOIDED GENERATING BENEFITS
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Air-Conditioning

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2009	0	0	0	0	0	0
2010	0	0	0	0	0	0
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	0	0	0
2019	107,801	29,130	2494	150,981	190,507	129,498
2020	104,595	60,698	1598	221,855	270,280	188,596
2021	100,443	62,123	3765	231,475	282,237	115,528
2022	96,442	63,676	3998	244,965	294,295	114,816
2023	92,578	65,268	4219	257,573	302,761	116,877
2024	88,844	66,900	4670	272,088	314,121	118,181
2025	85,229	68,573	4778	290,721	331,359	117,861
2026	81,724	70,287	5118	310,671	349,855	118,766
2027	78,322	72,044	5413	332,921	369,981	119,720
2028	74,929	73,845	5772	356,625	371,823	119,139
2029	71,538	75,691	5835	380,809	381,598	122,287
2030	68,149	77,584	6126	407,223	395,856	121,340
2031	64,863	79,523	6276	434,796	404,659	125,140
2032	61,630	81,511	6521	463,631	432,354	124,836
2033	58,439	83,549	7176	493,957	450,905	130,645
2034	54,690	85,638	7919	525,801	461,394	132,616
2035	51,225	87,779	7716	559,155	468,719	131,379
2036	47,902	89,973	7978	594,087	482,022	134,185
2037	44,692	92,222	8198	630,656	492,564	130,379
2038	41,545	94,528	8433	668,921	504,638	128,113
2039	37,851	96,891	8653	708,949	516,881	121,668
2040	35,149	99,313	8892	750,792	529,379	132,964
2041	33,021	101,796	9132	794,504	535,113	130,645
2042	30,896	104,341	9381	840,228	539,828	130,645
2043	28,774	106,950	9642	888,022	544,173	130,641
2044	0	0	0	0	0	0
2045	0	0	0	0	0	0
2046	0	0	0	0	0	0
2047	0	0	0	0	0	0
2048	0	0	0	0	0	0
2049	0	0	0	0	0	0
2050	0	0	0	0	0	0
2051	0	0	0	0	0	0
2052	0	0	0	0	0	0
2053	0	0	0	0	0	0
2054	0	0	0	0	0	0
2055	0	0	0	0	0	0
2056	0	0	0	0	0	0
2057	0	0	0	0	0	0
2058	0	0	0	0	0	0
2059	0	0	0	0	0	0
2060	0	0	0	0	0	0
2061	0	0	0	0	0	0
2062	0	0	0	0	0	0
2063	0	0	0	0	0	0
2064	0	0	0	0	0	0
2065	0	0	0	0	0	0
2066	0	0	0	0	0	0
2067	0	0	0	0	0	0
2068	0	0	0	0	0	0
2069	0	0	0	0	0	0
2070	0	0	0	0	0	0
2071	0	0	0	0	0	0
2072	0	0	0	0	0	0
2073	0	0	0	0	0	0
2074	0	0	0	0	0	0
2075	0	0	0	0	0	0
2076	0	0	0	0	0	0
2077	0	0	0	0	0	0
2078	0	0	0	0	0	0
2079	0	0	0	0	0	0
2080	0	0	0	0	0	0
2081	0	0	0	0	0	0
2082	0	0	0	0	0	0
2083	0	0	0	0	0	0
2084	0	0	0	0	0	0
2085	0	0	0	0	0	0
2086	0	0	0	0	0	0
2087	0	0	0	0	0	0
2088	0	0	0	0	0	0
2089	0	0	0	0	0	0
2090	0	0	0	0	0	0
2091	0	0	0	0	0	0
2092	0	0	0	0	0	0
2093	0	0	0	0	0	0
2094	0	0	0	0	0	0
2095	0	0	0	0	0	0
2096	0	0	0	0	0	0
2097	0	0	0	0	0	0
2098	0	0	0	0	0	0
2099	0	0	0	0	0	0
2100	0	0	0	0	0	0
NCR4	1,645,582	2,019,745	160,913	9,509,574	10,210,569	3,120,564
REV	366,972	335,328	24,297	1,435,563	1,618,929	563,172

AVOIDED GENERATING EMISSION IMPACT
 PROGRAM METHOD SELECTED: KEY_REQ
 PROGRAM NAME: Residential Air-Conditioning

YEAR	(2) AVOIDED GENERATING EMISSION BENEFIT \$(000)	(3) REPLACEMENT EMISSION COST \$(000)	(4) PROGRAM EMISSION BENEFIT \$(000)	(5) OFF-PEAK EMISSION PAYBACK COST \$(000)	(6) NET EMISSION BENEFIT \$(000)
2009	0	0	0	0	0
2010	0	0	38	0	38
2011	0	0	47	0	47
2012	0	0	74	0	74
2013	0	0	2,250	0	2,250
2014	0	0	3,277	0	3,277
2015	0	0	4,529	0	4,529
2016	0	0	6,145	0	6,145
2017	0	0	7,704	0	7,704
2018	0	0	9,213	0	9,213
2019	18,004	23,543	10,549	0	5,011
2020	27,415	35,508	11,407	0	3,315
2021	30,264	39,156	12,294	0	3,342
2022	35,271	45,621	13,603	0	3,333
2023	34,923	50,312	14,581	0	3,192
2024	44,817	57,789	16,142	0	3,169
2025	51,726	66,505	17,792	0	3,012
2026	57,362	73,311	18,779	0	2,830
2027	64,889	82,811	20,410	0	2,489
2028	71,153	90,654	22,182	0	2,681
2029	81,389	103,307	24,640	0	2,722
2030	90,242	114,470	26,601	0	2,573
2031	98,677	124,325	28,864	0	2,616
2032	107,998	136,617	31,252	0	2,603
2033	125,835	159,088	33,853	0	602
2034	139,288	175,943	36,599	0	(50)
2035	151,287	191,189	39,695	0	(207)
2036	165,160	208,675	42,996	0	(518)
2037	179,067	226,101	46,423	0	(669)
2038	194,042	245,055	50,129	0	(885)
2039	209,563	264,996	54,033	0	(1,400)
2040	226,464	286,326	58,124	0	(1,739)
2041	244,009	308,470	62,499	0	(1,962)
2042	244,009	308,470	67,169	0	2,709
2043	244,009	308,470	72,230	0	7,769
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
NOM	2,940,143	3,726,711	866,207	0	79,639
NEV	355,977	452,950	106,909	0	30,017

TOTAL RESOURCE COST TEST
PROGRAM/METHOD SELECTED: RESV_REQ
PROGRAM NAME: Residential Air-Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUEPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	(0)	(0)
2010	0	4,352	107,272	0	111,603	0	0	4,498	58	4,536	(107,667)	(98,329)
2011	0	3,892	92,357	0	96,249	2,435	12,013	14,495	47	14,495	(91,755)	(167,283)
2012	0	4,515	108,579	0	113,094	0	4,549	19,648	74	24,271	(98,823)	(236,085)
2013	0	4,962	118,905	0	123,866	0	7,138	27,347	2,250	34,735	(97,151)	(298,068)
2014	0	5,288	125,604	0	130,894	0	9,752	36,838	3,277	49,867	(91,017)	(350,597)
2015	0	5,334	128,792	0	134,126	0	12,478	51,182	4,829	68,139	(65,998)	(394,590)
2016	0	5,089	122,330	0	127,429	0	15,157	74,514	6,145	95,816	(31,613)	(408,009)
2017	0	4,162	108,419	0	112,581	0	17,619	93,686	7,704	118,969	6,408	(404,766)
2018	0	3,827	104,512	0	104,339	0	19,495	109,443	9,213	138,151	33,812	(383,652)
2019	0	0	0	0	0	129,498	21,009	129,382	5,011	285,100	285,100	(267,366)
2020	0	0	0	0	0	120,376	20,406	134,642	3,315	278,738	278,738	(158,104)
2021	0	0	0	0	0	115,320	19,814	140,183	3,342	278,838	278,838	(57,717)
2022	0	0	0	0	0	114,816	19,242	145,282	3,333	282,673	282,673	35,738
2023	0	0	0	0	0	116,877	18,686	144,624	3,192	283,578	283,578	121,779
2024	0	0	0	0	0	118,181	18,141	150,888	3,169	285,579	285,579	202,528
2025	0	6,273	155,262	0	161,535	117,961	17,695	153,190	3,012	291,769	130,134	335,854
2026	0	5,637	133,760	0	139,398	118,766	17,075	153,431	2,830	292,101	152,703	271,768
2027	0	6,538	157,855	0	163,794	119,724	16,547	154,664	2,489	293,420	129,626	299,766
2028	0	7,186	172,210	0	179,396	119,396	16,022	157,306	2,681	295,168	115,772	322,731
2029	0	7,646	181,912	0	189,559	122,287	15,498	155,598	2,722	296,104	106,545	343,141
2030	0	7,726	186,929	0	194,255	122,256	14,976	158,650	2,373	298,254	103,599	359,541
2031	0	7,384	177,171	0	184,535	121,340	14,463	163,536	2,816	301,955	117,490	377,580
2032	0	6,027	157,025	0	163,050	125,140	13,973	159,945	2,633	301,689	138,638	397,143
2033	0	5,542	145,571	0	151,114	124,836	13,513	163,923	602	304,874	153,761	417,079
2034	0	0	0	0	0	130,645	13,086	163,669	(56)	305,344	305,344	453,412
2035	0	0	0	0	0	132,616	12,694	172,905	(907)	318,008	318,008	488,171
2036	0	0	0	0	0	131,379	12,340	181,507	(518)	324,708	324,708	520,766
2037	0	0	0	0	0	134,185	12,024	185,108	(669)	330,648	330,648	551,249
2038	0	0	0	0	0	130,379	11,744	192,715	(885)	333,954	333,954	579,204
2039	0	0	0	0	0	128,115	11,497	197,291	(1,490)	335,501	335,501	605,611
2040	0	9,086	225,010	0	234,096	133,668	11,272	201,050	(1,739)	344,231	110,136	613,476
2041	0	8,165	193,725	0	201,890	132,364	11,057	207,909	(1,902)	349,368	147,479	623,148
2042	0	9,471	227,752	0	237,223	130,045	10,844	214,855	2,709	358,532	121,329	630,455
2043	0	10,407	249,411	0	259,818	130,441	10,633	230,647	7,789	379,480	119,671	637,075
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
NM	0	138,492	3,375,462	0	3,513,954	3,120,564	462,783	4,641,478	79,639	8,304,464	4,790,510	
NEV	0	41,121	1,001,673	0	1,042,796	563,172	128,536	958,145	30,017	1,679,871	637,075	

Discount Rate: 8.89 %
Benefit/Cost Ratio (Col(11) / Col(9)) : 1.61

RESIDENTIAL DUCT SYSTEM TESTING & REPAIR

INPUT DATA - PART 1 CONTINUED
PROGRAM METHOD SELECTED: KBY_KBY
PROGRAM NAME: Residential Dist. System Testing and Repair

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.35 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.25 KW
(3) KW LINE LOSS PERCENTAGE	8.86 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	374.32 KVA
(5) KVA LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.80
(7) CUSTOMER KVA INCREASE AT METER	0.00 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7078
(5) K FACTOR FOR T & D	1.6254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON-RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* (8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
* (9) SUPPLY COSTS ESCALATION RATES	*** %**
^ (10) UTILITY DISCOUNT RATE	8.50 %
- (11) UTILITY AFDG RATE	8.68 %
* (12) UTILITY NON-RECURRING REBATE/INCENTIVE	*** \$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
^ (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
^ VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
- PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2000
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	57.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KVA
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.23 CENTS PER KW-HR** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATES	*** %
(3) DEMAND CHARGES IN CUSTOMER BILL	*** \$/KW&D
(4) DEMAND CHARGES ESCALATION RATE	*** %

CALCULATION OF GENK FACTOR
 PROGRAM/MS/CD SELECTED REV_X/10
 PROGRAM/NAME Residential Duct System Testing and Repair

YEAR	(2) REG-YEAR RATE BASE, \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) PROPERTY TAX \$(000)	(8) PROPERTY INSURANCE \$(000)	(9) DEPRECI- ATION \$(000)	(10) DEFERRED TAXES \$(000)	(11) TOTAL DEFERRED CHARGES \$(000)	(12) PRESENT WORTH FIXED CHARGES \$(000)	(13) CUMULATIVE DEFERRED CHARGES \$(000)	(14) REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	105,424	3,275	0	7,337	4,854	1,777	827	4,113	8	22,010	23,030	22,010	102,815
2020	101,243	3,147	0	7,970	3,335	1,703	643	4,113	1,346	21,356	19,613	41,623	185,385
2021	95,845	2,977	0	6,689	3,303	1,629	639	4,113	1,137	20,508	17,297	58,920	188,926
2022	90,594	2,814	0	6,322	3,286	1,535	675	4,113	945	19,491	15,232	74,172	118,720
2023	85,538	2,657	0	5,949	3,225	1,481	692	4,113	765	18,502	13,466	87,638	123,488
2024	80,640	2,506	0	5,629	3,176	1,407	719	4,113	608	18,140	11,851	99,489	116,326
2025	75,948	2,359	0	5,300	3,123	1,332	727	4,113	447	17,401	10,441	109,910	119,834
2026	71,388	2,218	0	4,982	3,064	1,258	746	4,113	306	16,686	9,194	119,104	122,215
2027	66,970	2,080	0	4,674	2,994	1,184	764	4,113	285	15,991	8,092	127,197	125,270
2028	62,578	1,944	0	4,367	2,701	1,110	783	4,113	282	15,291	7,111	134,308	128,402
2029	58,180	1,807	0	4,060	2,508	1,036	803	4,113	283	14,610	6,234	140,544	131,632
2030	53,785	1,671	0	3,754	2,316	962	823	4,113	282	13,920	5,457	146,000	134,982
2031	49,390	1,534	0	3,447	2,123	888	843	4,113	283	13,231	4,783	150,763	138,275
2032	44,995	1,398	0	3,140	1,931	814	865	4,113	282	12,542	4,147	154,910	141,731
2033	40,600	1,261	0	2,833	1,738	740	886	4,113	283	11,854	3,599	158,509	145,275
2034	36,205	1,125	0	2,527	1,546	666	908	4,113	282	11,166	3,114	161,623	148,907
2035	31,810	988	0	2,220	1,353	592	931	4,113	283	10,479	2,634	164,206	152,620
2036	27,415	852	0	1,913	1,160	518	954	4,113	282	9,793	2,203	166,610	156,445
2037	23,020	715	0	1,607	967	444	978	4,113	283	9,107	1,867	168,577	160,355
2038	18,625	579	0	1,300	775	370	1,003	4,113	282	8,421	1,670	170,247	164,355
2039	14,230	442	0	993	583	296	1,028	4,113	(375)	7,736	1,469	171,656	168,478
2040	10,036	302	0	746	418	222	1,053	4,113	(1,438)	7,177	1,281	172,886	172,686
2041	6,022	240	0	500	261	148	1,080	4,113	(1,438)	6,742	1,036	173,953	177,003
2042	2,347	166	0	273	134	74	1,107	4,113	(1,438)	6,308	890	174,783	181,428
2043	2,473	83	0	187	1,797	0	1,134	4,113	(1,438)	5,873	761	175,544	185,964

IN SERVICE COST (\$000)	102,815
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
DEPR. TAX RATE	38.57%
DISCOUNT RATE	8.9%
PROPERTY TAX	1.889%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	7.03%
P/S	0%	8.00%
CS	56%	12.36%

K-FACTOR = $\frac{CFWC}{IN-SVC COST} = 1.79738$

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Dwell System Testing and Rr

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MONTHS LIFE	(10)/(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	3,749	3,749	4,113	4,113	3,729	3,729	8	3,597	0	0	0	8	(2,681)
2020	7.25%	7,218	10,967	4,113	8,225	3,729	7,457	1,346	3,597	0	0	0	1,346	(1,335)
2021	6.68%	6,676	17,643	4,113	12,338	3,729	11,136	1,137	3,597	0	0	0	1,137	(1,18)
2022	6.18%	6,179	23,822	4,113	16,450	3,729	14,915	945	3,597	0	0	0	945	827
2023	5.77%	5,712	29,534	4,113	20,563	3,729	18,644	765	3,597	0	0	0	765	1,592
2024	5.29%	5,284	34,818	4,113	24,676	3,729	22,372	600	3,597	0	0	0	600	2,192
2025	4.82%	4,587	39,705	4,113	28,789	3,729	26,101	447	3,597	0	0	0	447	2,639
2026	4.32%	4,521	44,226	4,113	32,901	3,729	29,830	306	3,597	0	0	0	306	2,944
2027	4.46%	4,461	48,687	4,113	37,013	3,729	33,559	263	3,597	0	0	0	263	3,207
2028	4.46%	4,460	53,147	4,113	41,126	3,729	37,287	221	3,597	0	0	0	221	3,509
2029	4.46%	4,461	57,609	4,113	45,239	3,729	41,016	225	3,597	0	0	0	225	3,791
2030	4.46%	4,460	62,069	4,113	49,251	3,729	44,745	282	3,597	0	0	0	282	4,074
2031	4.46%	4,461	66,530	4,113	53,464	3,729	48,473	282	3,597	0	0	0	282	4,356
2032	4.46%	4,460	70,990	4,113	57,576	3,729	52,202	282	3,597	0	0	0	282	4,638
2033	4.46%	4,461	75,451	4,113	61,689	3,729	55,931	282	3,597	0	0	0	282	4,921
2034	4.46%	4,460	79,911	4,113	65,801	3,729	59,660	282	3,597	0	0	0	282	5,203
2035	4.46%	4,461	84,373	4,113	69,914	3,729	63,388	282	3,597	0	0	0	282	5,486
2036	4.46%	4,460	88,833	4,113	74,027	3,729	67,117	282	3,597	0	0	0	282	5,768
2037	4.46%	4,461	93,294	4,113	78,139	3,729	70,846	282	3,597	0	0	0	282	6,050
2038	4.46%	4,460	97,754	4,113	82,252	3,729	74,574	282	3,597	0	0	0	282	6,332
2039	2.23%	2,231	99,985	4,113	86,564	3,729	78,303	(578)	3,597	0	0	0	(578)	5,755
2040	0.00%	0	99,985	4,113	90,477	3,729	82,032	(1,438)	3,597	0	0	0	(1,438)	4,316
2041	0.00%	0	99,985	4,113	94,590	3,729	85,761	(1,438)	3,597	0	0	0	(1,438)	2,878
2042	0.00%	0	99,985	4,113	98,702	3,729	89,489	(1,438)	3,597	0	0	0	(1,438)	1,440
2043	0.00%	0	99,985	4,113	102,815	3,729	93,218	(1,438)	3,597	0	0	0	(1,438)	1

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,689)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,597
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Dist System Testing and Repair

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	3,749	3	38,702	4,113	(2,581)	105,424	101,303	103,364
2020	7.22%	7,218	1,346	34,390	8,225	(1,253)	101,303	95,845	98,574
2021	6.68%	6,676	1,137	30,477	12,338	(118)	95,845	90,396	93,220
2022	6.18%	6,179	945	26,564	16,450	827	90,396	85,538	88,067
2023	5.71%	5,712	765	22,232	20,563	1,592	85,538	80,600	83,099
2024	5.29%	5,284	604	18,139	24,676	2,192	80,600	75,948	78,304
2025	4.89%	4,887	447	14,027	28,788	2,639	75,948	71,388	73,658
2026	4.52%	4,521	306	9,914	32,901	2,944	71,388	66,970	69,129
2027	4.16%	4,161	223	6,581	37,013	3,227	66,970	62,575	64,772
2028	4.16%	4,160	222	61,689	41,126	3,509	62,575	58,180	60,377
2029	4.16%	4,161	223	57,576	45,239	3,791	58,180	53,785	55,982
2030	4.16%	4,160	222	53,463	49,351	4,074	53,785	49,390	51,587
2031	4.16%	4,161	223	49,351	53,464	4,356	49,390	44,995	47,191
2032	4.16%	4,160	222	45,239	57,576	4,638	44,995	40,600	42,796
2033	4.16%	4,161	223	41,126	61,689	4,921	40,600	36,205	38,403
2034	4.16%	4,160	222	37,013	65,801	5,203	36,205	31,810	34,008
2035	4.16%	4,161	223	32,901	69,914	5,486	31,810	27,415	29,613
2036	4.16%	4,160	222	28,788	74,027	5,768	27,415	23,020	25,218
2037	4.16%	4,161	223	24,676	78,139	6,050	23,020	18,625	20,823
2038	4.16%	4,160	222	20,563	82,252	6,332	18,625	14,230	16,428
2039	2.23%	2,231	(578)	16,450	86,364	5,755	14,230	10,696	12,463
2040	0.00%	0	(1,438)	12,338	90,477	4,316	10,696	8,022	9,359
2041	0.00%	0	(1,438)	8,225	94,590	2,878	8,022	5,347	6,684
2042	0.00%	0	(1,438)	4,113	98,702	1,440	5,347	2,673	4,010
2043	0.00%	0	(1,438)	0	102,815	1	2,673	-1	1,336

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.02
2014	-5	3.00%	1.159	1.90%	15.59	5.24
2015	-4	3.00%	1.194	4.57%	29.61	37.03
2016	-3	3.00%	1.226	37.28%	334.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	298.84
2018	-1	3.00%	1.305	10.44%	96.79	259.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(3a)* DEBT AFUDC (\$K/W)	100.00%		(3b)* TOTAL AFUDC (\$K/W)	(3c)* CONSTRUCTION PERIOD INTEREST (\$K/W)	(3d)* CUMULATIVE CFI (\$K/W)	(3e)* DEFERRED TAXES (\$K/W)	(3e)* CUMULATIVE DEFERRED TAXES (\$K/W)	(10) INCREASING YEAR-END BOOK VALUE (\$K/W)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
				(8)* CUMULATIVE DEBT AFUDC (\$K/W)	(9)* YEARLY TOTAL AFUDC (\$K/W)							
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.02	0.02	0.02	0.05	0.05	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	5.29	0.29	0.30	0.79	0.84	0.45	0.79	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.73)	42.53	60.59
2016	-3	226.84	7.87	8.56	19.29	25.26	15.26	19.25	(3.41)	(4.13)	351.16	412.36
2017	-2	822.20	19.46	28.01	53.10	76.45	-3.47	62.72	(9.24)	(13.39)	473.37	885.43
2018	-1	934.83	29.46	57.47	80.30	156.84	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,015
AFUDC RATE	8.48%

	57.47	156.84	127.50	(27.02)	1,064.61
	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS		
CONSTRUCTION CASR	87,668	87,668	87,668		
EQUITY AFUDC	9,597	5,550			
DEBT AFUDC			12,314		
CFI					
TOTAL	102,815	93,218	99,982		

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM MESSAGE SELECTED: RESV_REQ
 PROGRAM NAME: Residential Duct System Testing and Repair

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6)* INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAM KW EFFECTIVENESS FACTOR	(9) PROGRAM KW INEFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	22,138	22,138	6.41	9.61	6.70	0.00	1.00	1.00
2011	50,069	50,069	6.35	8.48	6.61	0.00	1.00	1.00
2012	89,230	89,230	6.45	8.45	6.66	0.00	1.00	1.00
2013	135,567	135,567	7.36	8.41	7.23	0.00	1.00	1.00
2014	185,139	185,139	7.53	8.67	7.68	0.00	1.00	1.00
2015	236,738	236,738	8.11	9.61	8.31	0.00	1.00	1.00
2016	291,255	291,255	9.20	11.55	9.31	0.00	1.00	1.00
2017	341,111	341,111	9.75	12.72	10.06	0.00	1.00	1.00
2018	387,059	387,059	10.52	10.96	13.33	0.00	1.00	1.00
2019	387,059	387,059	11.50	15.25	11.94	18.41	1.00	1.00
2020	387,059	387,059	12.88	15.88	12.57	18.59	1.00	1.00
2021	387,059	387,059	12.57	16.57	13.68	18.74	1.00	1.00
2022	387,059	387,059	13.06	17.14	13.59	18.81	1.00	1.00
2023	387,059	387,059	13.39	17.16	13.92	18.80	1.00	1.00
2024	387,059	387,059	13.95	17.82	14.47	18.84	1.00	1.00
2025	387,059	387,059	14.40	18.22	14.92	18.96	1.00	1.00
2026	387,059	387,059	14.70	18.32	15.19	11.03	1.00	1.00
2027	387,059	387,059	15.13	18.54	15.60	11.17	1.00	1.00
2028	387,059	387,059	15.60	18.91	16.05	11.36	1.00	1.00
2029	387,059	387,059	16.02	18.85	16.44	11.41	1.00	1.00
2030	387,059	387,059	16.32	19.26	16.92	11.59	1.00	1.00
2031	387,059	387,059	17.08	19.86	17.47	11.88	1.00	1.00
2032	387,059	387,059	17.50	19.62	17.94	11.88	1.00	1.00
2033	387,059	387,059	18.27	20.38	18.50	12.10	1.00	1.00
2034	387,059	387,059	18.73	20.08	18.86	12.14	1.00	1.00
2035	387,059	387,059	19.57	21.97	19.75	12.29	1.00	1.00
2036	387,059	387,059	20.40	22.39	20.54	12.55	1.00	1.00
2037	387,059	387,059	21.11	22.91	21.24	12.70	1.00	1.00
2038	387,059	387,059	22.02	23.26	22.16	13.04	1.00	1.00
2039	387,059	387,059	22.78	24.49	22.89	13.32	1.00	1.00
2040	387,059	387,059	23.59	25.94	23.63	13.44	1.00	1.00
2041	387,059	387,059	24.54	25.93	24.62	13.75	1.00	1.00
2042	387,059	387,059	25.50	26.84	25.59	14.10	1.00	1.00
2043	387,059	387,059	26.74	28.65	26.85	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

RATE IMPACT TEST
 PROGRAM METHOD SELECTED: KSV_NEO
 PROGRAM NAME: Residential Duct System Testing and Report

(1) YEAR	(2) INCREASED SUPPLY COSTS \$(000)	(3) UTILITY PROGRAM COSTS \$(000)	(4) INCENTIVES \$(000)	(5) REVENUE LOSSES \$(000)	(6) OTHER COSTS \$(000)	(7) TOTAL COSTS \$(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	(9) AVOIDED T&D BENEFITS \$(000)	(10) REVENUE GAINS \$(000)	(11) OTHER BENEFITS \$(000)	(12) TOTAL BENEFITS \$(000)	(13) NET BENEFITS \$(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	1,744	3,362	418	0	5,524	407	0	0	3	410	(5,114)	(4,696)
2011	0	2,255	4,241	1,406	0	7,903	1,235	245	0	5	1,485	(6,418)	(10,109)
2012	0	3,841	5,947	2,829	0	12,617	2,579	556	0	9	2,934	(9,111)	(17,167)
2013	0	3,931	7,036	4,842	0	15,809	3,719	1,036	0	306	5,061	(10,749)	(24,813)
2014	0	4,311	7,527	7,261	0	19,100	5,632	1,570	0	482	7,672	(11,684)	(30,446)
2015	0	4,329	7,839	10,079	0	22,518	7,956	2,145	0	705	10,806	(11,712)	(39,473)
2016	0	4,981	8,283	13,016	0	26,280	12,289	2,749	0	1,007	15,045	(10,312)	(44,157)
2017	0	4,669	7,583	16,228	0	28,479	14,161	3,386	0	1,379	20,876	(7,603)	(49,045)
2018	0	4,410	6,997	19,447	0	30,855	19,742	3,964	0	1,562	25,368	(1,487)	(51,335)
2019	0	0	0	21,585	0	21,585	20,254	4,432	0	308	55,514	33,928	(37,073)
2020	0	0	0	21,653	0	21,653	49,321	4,324	0	444	54,089	32,434	(34,359)
2021	0	0	0	22,124	0	22,124	49,348	4,198	0	431	51,977	31,823	(12,892)
2022	0	0	0	22,766	0	22,766	50,141	4,977	0	401	54,619	31,833	(2,363)
2023	0	0	0	23,456	0	23,456	50,441	3,929	0	354	54,754	31,299	7,142
2024	0	0	0	24,498	0	24,498	51,711	3,945	0	318	55,974	31,376	15,401
2025	0	0	0	25,377	0	25,377	52,936	3,738	0	222	56,221	30,844	23,790
2026	0	0	0	26,397	0	26,397	52,443	3,622	0	195	56,262	29,865	30,814
2027	0	0	0	27,777	0	27,777	52,864	3,512	0	92	56,670	28,093	37,812
2028	0	0	0	28,944	0	28,944	53,237	3,402	0	95	56,734	27,827	42,322
2029	0	0	0	30,189	0	30,189	53,562	3,293	0	33	56,908	26,789	47,398
2030	0	0	0	31,677	0	31,677	54,117	3,184	0	(38)	57,242	25,566	51,675
2031	0	0	0	33,120	0	33,120	54,828	3,076	0	(55)	57,849	24,729	55,475
2032	0	0	0	35,076	0	35,076	54,943	2,971	0	(100)	57,834	22,758	58,680
2033	0	0	0	38,323	0	38,323	55,980	2,871	0	(58)	58,283	20,070	61,284
2034	0	0	0	38,929	0	38,929	56,384	2,776	0	(75)	58,402	19,478	63,401
2035	0	3,223	3,362	40,461	0	47,046	58,832	2,688	0	(82)	60,688	13,632	65,092
2036	0	4,182	4,241	43,256	0	51,779	60,180	2,608	0	(93)	61,865	10,026	66,098
2037	0	6,028	5,947	45,676	0	57,622	61,415	2,537	0	(1,084)	62,867	5,236	66,581
2038	0	7,288	7,036	47,664	0	61,988	62,056	2,474	0	(1,203)	63,306	1,518	66,693
2039	0	7,992	7,527	49,848	0	65,367	62,414	2,420	0	(1,288)	63,645	(1,521)	66,543
2040	0	8,927	7,839	52,170	0	68,336	64,255	2,372	0	(1,541)	63,966	(3,469)	66,295
2041	0	9,934	8,283	54,928	0	72,445	65,293	2,327	0	(1,670)	65,884	(6,560)	65,885
2042	0	8,656	7,583	57,871	0	74,110	66,054	2,282	0	(917)	67,519	(6,391)	65,488
2043	0	8,177	6,997	61,014	0	76,188	69,019	2,238	0	113	71,369	(4,819)	65,282
2044	0	0	0	0	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0	0	0
NOM.	0	97,440	117,631	980,256	0	1,195,427	1,480,421	94,893	0	(2,919)	1,571,347	577,920	
NPV	0	26,298	42,828	179,578	0	247,696	284,702	25,225	0	3,171	313,098	65,202	

Discount Rate: 8.50 %
 Benefit/Cost Ratio (Col(12) / Col(7)): 1.26

RESIDENTIAL BUILDING ENVELOPE

INPUT DATA -- PART 1 CONTINUED
PROGRAM/METHOD SELECTED: REV_XBQ
PROGRAM NAME: Residential Building Envelope

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.36 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.43 KW
(3) KW LINE LOSS PERCENTAGE	2.66 %
(4) GENERATOR KWH REDUCTION PER CUSTOMER	887.50 KWH
(5) KVA LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.00 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.70738
(5) K FACTOR FOR T & D	1.63254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON-RECURRING COST PER CUSTOMER	--- \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	--- \$/CUST
(3) UTILITY COST ESCALATION RATE	--- %
(4) CUSTOMER EQUIPMENT COST	--- \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	--- %
(6) CUSTOMER O & M COST	--- \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	--- %
(8) INCREASED SUPPLY COSTS	--- \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	--- %
(10) UTILITY DISCOUNT RATE	2.89 %
(11) UTILITY APUDC RATE	3.48 %
(12) UTILITY NON-RECURRING REBATE/INCENTIVE	--- \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	--- \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	--- %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	724.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KWYR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.186 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0.94 ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.23 CENTS PER KWH** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	--- CENTS/KWH
(2) NON-FUEL COST ESCALATION RATE	--- %
(3) DEMAND CHARGE IN CUSTOMER BILL	--- \$/KWMO
(4) DEMAND CHARGE ESCALATION RATE	--- %

**CALCULATION OF GENE FACTOR
PROGRAM METHOD SELECTED REV. REQ.
PROGRAM NAME: Residential Building Envelope**

YEAR	(2) EBO-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) PROPERTY TAX \$(000)	(8) PROPERTY INSURANCE \$(000)	(9) DEPREC. \$(000)	(10) DEFERRED TAXES \$(000)	(11) TOTAL FIXED CHARGES \$(000)	(12) PRESENT WORKS FIXED CHARGES \$(000)	(13) CUMULATIVE FIXED CHARGES \$(000)	(14) REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	164,044	3,086	0	11,442	7,232	2,703	976	6,399	22	34,340	34,340	34,340	139,985
2020	157,633	4,897	0	11,011	5,189	2,640	1,099	6,399	2,094	33,334	33,518	68,767	160,984
2021	149,139	4,633	0	10,493	5,142	2,534	1,025	6,399	1,769	31,911	28,915	97,682	168,684
2022	148,971	4,379	0	9,838	5,083	2,419	1,051	6,399	1,471	30,640	28,733	115,415	172,284
2023	133,101	4,135	0	9,289	4,818	2,304	1,077	6,399	1,199	29,412	30,923	136,338	176,393
2024	125,511	3,899	0	8,759	4,542	2,189	1,104	6,399	934	28,228	18,449	154,779	181,008
2025	118,178	3,671	0	8,267	4,269	2,073	1,132	6,399	695	27,077	16,946	171,025	183,533
2026	111,083	3,451	0	7,752	4,768	1,958	1,160	6,399	478	25,964	14,307	185,332	190,171
2027	104,208	3,237	0	7,272	4,503	1,843	1,189	6,399	440	24,883	12,592	197,924	194,926
2028	97,369	3,023	0	6,795	4,289	1,728	1,219	6,399	439	23,808	11,063	208,989	199,299
2029	90,531	2,812	0	6,338	3,993	1,613	1,249	6,399	440	22,734	9,708	218,692	204,794
2030	83,692	2,600	0	5,861	3,694	1,497	1,280	6,399	439	21,661	8,491	227,183	209,914
2031	76,853	2,387	0	5,363	3,394	1,382	1,312	6,399	440	20,588	7,412	234,595	215,162
2032	70,014	2,175	0	4,866	3,095	1,267	1,343	6,399	439	19,516	6,432	241,047	220,541
2033	63,176	1,963	0	4,409	2,794	1,152	1,379	6,399	440	18,446	5,601	246,648	225,054
2034	56,337	1,750	0	3,932	2,495	1,037	1,413	6,399	439	17,373	4,845	251,493	231,705
2035	49,498	1,538	0	3,454	2,195	922	1,449	6,399	440	16,306	4,176	255,668	237,498
2036	42,659	1,325	0	2,977	1,896	806	1,485	6,399	439	15,238	3,584	259,282	243,436
2037	35,821	1,113	0	2,500	1,595	691	1,522	6,399	440	14,170	3,061	262,313	249,201
2038	28,982	900	0	2,023	1,296	576	1,560	6,399	439	13,104	2,589	264,912	255,739
2039	22,143	688	0	1,545	2,043	461	1,599	6,399	(898)	12,038	2,139	267,199	262,153
2040	15,304	517	0	1,161	3,343	344	1,639	6,399	(2,238)	11,167	1,868	268,974	268,707
2041	12,462	388	0	871	3,169	230	1,680	6,399	(2,238)	10,491	1,612	270,583	273,425
2042	8,321	258	0	581	2,978	115	1,722	6,399	(2,238)	9,816	1,365	271,971	274,311
2043	4,159	129	0	290	2,796	(0)	1,765	6,399	(2,238)	9,341	1,185	273,153	274,968

IN SERVICE COST (\$000)	139,985
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
EFFECT. RATE	36.57%
DISCOUNT RATE	3.5%
PROPERTY TAX	1.89%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	48%	7.05%
EQUITY	0%	0.00%
C/S	52%	12.30%

X-FACTOR = CPWFC / IN-SVC COST = 1.70738

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM(METHOD) SELECTED: RESY JSQ
 PROGRAM NAME: Residential Building Develops

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR. FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR. RATE MINUS 1/2 LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	3,834	3,834	6,399	6,399	5,802	5,802	12	14,933	0	0	0	12	(4,047)
2020	7.22%	11,231	17,065	6,399	12,799	5,802	11,604	2,694	14,933	0	0	0	2,094	(1,920)
2021	6.06%	10,288	27,453	6,399	19,198	5,802	17,406	1,769	14,933	0	0	0	1,769	(184)
2022	6.18%	9,615	37,068	6,399	25,598	5,802	23,298	1,471	14,933	0	0	0	1,471	1,286
2023	5.71%	8,883	45,951	6,399	31,997	5,802	29,010	1,190	14,933	0	0	0	1,190	2,477
2024	5.29%	8,222	54,173	6,399	38,396	5,802	34,822	934	14,933	0	0	0	934	3,410
2025	4.89%	7,605	61,782	6,399	44,796	5,802	40,614	695	14,933	0	0	0	695	4,106
2026	4.52%	7,025	68,812	6,399	51,195	5,802	46,417	476	14,933	0	0	0	476	4,581
2027	4.16%	6,482	75,759	6,399	57,594	5,802	52,219	440	14,933	0	0	0	440	5,021
2028	4.86%	6,940	82,700	6,399	63,994	5,802	58,021	439	14,933	0	0	0	439	5,460
2029	4.46%	6,942	89,641	6,399	70,393	5,802	63,823	440	14,933	0	0	0	440	5,900
2030	4.46%	6,940	96,582	6,399	76,793	5,802	69,625	439	14,933	0	0	0	439	6,339
2031	4.46%	6,942	103,524	6,399	83,192	5,802	75,427	440	14,933	0	0	0	440	6,778
2032	4.46%	6,940	110,466	6,399	89,591	5,802	81,229	439	14,933	0	0	0	439	7,217
2033	4.46%	6,942	117,406	6,399	95,991	5,802	87,031	440	14,933	0	0	0	440	7,657
2034	4.46%	6,940	124,346	6,399	102,390	5,802	92,833	439	14,933	0	0	0	439	8,096
2035	4.46%	6,942	131,288	6,399	108,790	5,802	98,635	440	14,933	0	0	0	440	8,536
2036	4.46%	6,940	138,228	6,399	115,189	5,802	104,437	439	14,933	0	0	0	439	8,975
2037	4.46%	6,942	145,170	6,399	121,588	5,802	110,239	440	14,933	0	0	0	440	9,415
2038	4.46%	6,940	152,110	6,399	127,988	5,802	116,041	439	14,933	0	0	0	439	9,854
2039	2.23%	3,671	155,581	6,399	134,387	5,802	121,843	(394)	14,933	0	0	0	(394)	8,454
2040	0.00%	0	155,581	6,399	140,786	5,802	127,645	(2,238)	14,933	0	0	0	(2,238)	6,716
2041	0.00%	0	155,581	6,399	147,186	5,802	133,448	(2,238)	14,933	0	0	0	(2,238)	4,478
2042	0.00%	0	155,581	6,399	153,585	5,802	139,250	(2,238)	14,933	0	0	0	(2,238)	2,240
2043	0.00%	0	155,581	6,399	159,985	5,802	145,052	(2,238)	14,933	0	0	0	(2,238)	2

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(4,046)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	14,923
BOOK DEPR. RATE - 1/2 USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: EBY_REQ
 PROGRAM NAME: Residential Building Envelope

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	5,834	12	151,333	6,399	(4,047)	164,644	157,633	161,319
2020	7.22%	11,231	2,024	147,186	12,799	(1,959)	157,633	149,129	153,586
2021	6.88%	10,388	1,769	140,786	19,198	(184)	149,129	140,971	145,655
2022	6.18%	9,615	1,471	134,587	25,598	1,286	140,971	133,101	137,836
2023	5.71%	8,888	1,196	127,988	31,997	2,677	133,101	125,511	129,396
2024	5.29%	8,222	934	121,588	38,596	3,416	125,511	118,178	121,844
2025	4.89%	7,605	695	115,189	44,796	4,106	118,178	111,063	114,631
2026	4.52%	7,035	476	108,790	51,195	4,581	111,063	104,208	107,646
2027	4.46%	6,942	440	102,390	57,594	5,021	104,208	97,369	100,789
2028	4.46%	6,940	439	95,991	63,994	5,460	97,369	90,531	93,959
2029	4.46%	6,942	440	89,591	70,393	5,900	90,531	83,692	87,111
2030	4.46%	6,940	439	83,192	76,793	6,339	83,692	76,853	80,272
2031	4.46%	6,942	440	76,793	83,192	6,778	76,853	70,014	73,454
2032	4.46%	6,940	439	70,393	89,591	7,217	70,014	63,175	66,595
2033	4.46%	6,942	440	63,994	95,991	7,657	63,175	56,337	59,736
2034	4.46%	6,940	439	57,594	102,390	8,096	56,337	49,498	52,917
2035	4.46%	6,942	440	51,195	108,790	8,536	49,498	42,659	46,029
2036	4.46%	6,940	439	44,796	115,189	8,975	42,659	35,821	39,240
2037	4.46%	6,942	440	38,396	121,588	9,415	35,821	28,982	32,401
2038	4.46%	6,940	439	31,997	127,988	9,854	28,982	22,143	25,560
2039	3.23%	3,471	(889)	25,598	134,387	9,954	22,143	16,643	19,380
2040	0.00%	0	(2,238)	19,198	140,786	6,716	16,643	12,482	14,563
2041	0.00%	0	(2,238)	12,799	147,186	4,478	12,482	8,321	10,481
2042	0.00%	0	(2,238)	6,399	153,585	2,240	8,321	4,159	6,240
2043	0.00%	0	(2,238)	(0)	159,985	2	4,159	-2	2,079

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	0.00%	1.000	0.00%	0.00	0.00
2011	-8	0.00%	1.001	0.00%	0.00	0.00
2012	-7	0.00%	1.003	0.00%	0.00	0.00
2013	-6	0.00%	1.125	0.13%	1.34	0.82
2014	-5	0.00%	1.159	1.00%	15.59	5.24
2015	-4	0.00%	1.194	4.57%	39.61	37.83
2016	-3	0.00%	1.230	37.00%	331.87	222.77
2017	-2	0.00%	1.267	45.70%	430.27	598.84
2018	-1	0.00%	1.305	10.44%	58.79	858.38

100.00% 507.77

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(9) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(10)* DEBT AFUDC (\$K/W)	(11)* CUMULATIVE DEBT AFUDC (\$K/W)	(12) YEARLY TOTAL AFUDC (\$K/W)	(13)* CUMULATIVE TOTAL AFUDC (\$K/W)	(14)* CONSTRUCTION PERIOD INTEREST (\$K/W)	(15)* CUMULATIVE CPI (\$K/W)	(16)* DEFERRED TAXES (\$K/W)	(17)* CUMULATIVE DEFERRED TAXES (\$K/W)	(18) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(19) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.82	0.02	0.02	0.05	0.05	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	5.29	0.29	0.30	0.79	0.84	0.85	0.70	(0.14)	(0.15)	16.73	18.07
2015	-4	37.87	1.18	1.49	3.20	4.96	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.07	3.56	19.29	23.36	15.90	19.25	(3.41)	(4.13)	351.16	412.86
2017	-2	622.20	29.46	28.81	54.10	76.45	43.47	62.72	(9.26)	(13.39)	473.37	885.43
2018	-1	594.83	29.46	57.47	80.39	156.84	64.78	127.50	(13.63)	(27.02)	179.13	1,064.61

57.47

156.84

127.50

(27.02)

1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,805
AFUDC RATE	3.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAC BASIS
CONSTRUCTION CASE	136,416	136,416	136,416
EQUITY AFUDC	14,933		
DEBT AFUDC	8,836	8,836	
CPI			19,160
TOTAL	159,985	145,252	155,576

* Column not specified in workbook

INFOT DATA - PART 2
 PROGRAM METHOD SELECTED: KEV_REQ
 PROGRAM NAME: Residential Building Envelope

(1) YEAR	(2) COMPLATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED COMPLATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6)* INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAM KW EFFECTIVENESS FACTOR	(9) PROGRAM KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	12,685	12,685	6.41	8.81	6.78	0.00	1.00	1.00
2011	39,640	39,640	6.35	8.34	6.64	0.00	1.00	1.00
2012	71,748	71,748	6.43	8.30	6.69	0.00	1.00	1.00
2013	108,833	108,833	7.06	8.36	7.25	0.00	1.00	1.00
2014	150,028	150,028	7.53	8.57	7.70	0.00	1.00	1.00
2015	193,836	193,836	8.11	9.46	8.34	0.00	1.00	1.00
2016	236,183	236,183	9.00	11.34	9.35	0.00	1.00	1.00
2017	277,470	277,470	9.75	12.46	10.10	0.00	1.00	1.00
2018	314,053	314,053	10.52	13.30	10.99	0.00	1.00	1.00
2019	314,053	314,053	11.50	14.97	11.99	10.41	1.00	1.00
2020	314,053	314,053	12.03	15.61	12.63	10.50	1.00	1.00
2021	314,053	314,053	12.57	16.19	13.15	10.74	1.00	1.00
2022	314,053	314,053	13.06	16.78	13.65	10.81	1.00	1.00
2023	314,053	314,053	13.39	16.78	13.96	10.59	1.00	1.00
2024	314,053	314,053	13.95	17.45	14.52	10.84	1.00	1.00
2025	314,053	314,053	14.40	17.87	14.97	10.96	1.00	1.00
2026	314,053	314,053	14.70	17.97	15.24	11.05	1.00	1.00
2027	314,053	314,053	15.13	18.18	15.65	11.17	1.00	1.00
2028	314,053	314,053	15.60	18.33	16.10	11.36	1.00	1.00
2029	314,053	314,053	16.02	18.53	16.48	11.41	1.00	1.00
2030	314,053	314,053	16.52	18.95	16.96	11.59	1.00	1.00
2031	314,053	314,053	17.03	19.56	17.82	11.80	1.00	1.00
2032	314,053	314,053	17.50	19.39	17.87	11.88	1.00	1.00
2033	314,053	314,053	18.27	20.13	18.51	12.10	1.00	1.00
2034	314,053	314,053	18.73	19.95	18.88	12.14	1.00	1.00
2035	314,053	314,053	19.57	21.15	19.77	12.29	1.00	1.00
2036	314,053	314,053	20.40	22.15	20.57	12.55	1.00	1.00
2037	314,053	314,053	21.11	22.71	21.27	12.70	1.00	1.00
2038	314,053	314,053	22.02	23.65	22.19	13.04	1.00	1.00
2039	314,053	314,053	22.78	24.29	22.92	13.32	1.00	1.00
2040	314,053	314,053	23.39	24.86	23.70	13.44	1.00	1.00
2041	314,053	314,053	24.54	25.76	24.64	13.75	1.00	1.00
2042	314,053	314,053	25.30	26.71	25.61	14.10	1.00	1.00
2043	314,053	314,053	26.74	28.43	26.88	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: RSV_REQ
PROGRAM NAME: Residential Building Envelope

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2009	0	0	0	0	0	0
2010	0	0	0	0	0	0
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	0	0	0
2019	34,249	18,786	792	47,840	60,525	41,142
2020	33,230	19,255	1143	70,484	85,869	38,244
2021	31,911	19,737	1196	73,540	89,683	36,701
2022	30,648	20,230	1270	77,835	93,498	36,477
2023	29,412	20,736	1340	81,832	96,188	37,192
2024	28,228	21,254	1420	86,443	99,797	37,546
2025	27,077	21,786	1518	92,369	105,267	37,477
2026	25,964	22,339	1626	98,701	110,889	37,782
2027	24,883	22,889	1720	104,181	115,638	38,035
2028	23,838	23,461	1770	106,947	118,129	37,857
2029	22,734	24,047	1854	111,450	121,935	38,851
2030	21,661	24,649	1946	116,668	126,082	38,841
2031	20,588	25,265	1994	119,672	128,349	38,550
2032	19,516	25,896	2072	123,279	131,006	39,757
2033	18,445	26,544	2280	135,645	143,254	39,661
2034	17,375	27,207	2386	141,188	146,650	41,506
2035	16,306	27,888	2422	144,401	148,913	42,133
2036	15,238	28,585	2535	148,713	152,330	41,789
2037	14,170	29,299	2604	152,093	155,536	42,631
2038	13,104	30,032	2679	155,887	160,280	41,422
2039	12,038	30,783	2749	159,093	163,961	40,702
2040	11,167	31,552	2825	162,757	165,834	42,467
2041	10,491	32,341	2901	166,528	178,808	42,053
2042	9,816	33,150	2980	170,116	174,745	41,316
2043	9,141	33,978	3070	174,491	179,240	41,441
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
NOM	521,192	641,679	51,123	3,021,346	3,243,927	991,412
NPV	116,588	106,535	7,719	482,417	514,338	178,921

RESIDENTIAL NEW CONSTRUCTION

INPUT DATA - PART I CONTINUED
PROGRAMMED/REQD SELECTED: REV_REQ
PROGRAMNAME: Residential New Construction - Buildsmart

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.83 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.11 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KWA REDUCTION PER CUSTOMER	1.54521 KWA
(5) KWA LINE LOSS PERCENTAGE	6.96 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWA INCREASE AT METER	4.08 KWA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.70738
(5) K FACTOR FOR T & D	1.63254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* INCREASED SUPPLY COSTS	*** \$/CUST/YR
* SUPPLY COSTS ESCALATION RATES	*** %**
* (10) UTILITY DISCOUNT RATE	8.87 %
* (11) UTILITY APODC RATE	8.45 %
* (12) UTILITY NONRECURRING REBATE/INCENTIVE	*** \$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012.0019
(4) BASE YEAR AVOIDED GENERATING COST	723.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.81 \$/KW
(12) T&D EXRD O & M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.166 CENTS/KWA
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$ 21 CENTS PER KWH** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KWA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/DO
(4) DEMAND CHARGE ESCALATION RATE	*** %

CALCULATION OF GENX-FACTOR
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential New Construction - Buldsmart

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REG-YEAR RATE/BASE \$(000)	DEBT \$(000)	RESERVED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	89,648	2,785	0	6,256	4,137	1,311	533	3,497	7	18,716	18,716	18,716	87,429
2020	86,144	2,676	0	6,012	3,836	1,448	547	3,497	1,144	18,168	16,678	35,394	89,615
2021	81,582	2,532	0	5,688	3,510	1,385	580	3,497	967	17,439	14,709	50,103	91,855
2022	77,038	2,393	0	5,376	3,278	1,322	574	3,497	804	16,794	12,970	63,072	94,152
2023	72,737	2,260	0	5,076	2,962	1,259	588	3,497	651	16,073	11,434	74,507	96,505
2024	68,590	2,131	0	4,787	2,701	1,196	603	3,497	510	15,425	10,077	84,584	98,918
2025	64,582	2,006	0	4,507	2,433	1,133	618	3,497	380	14,797	8,978	93,462	101,301
2026	60,705	1,886	0	4,236	2,166	1,070	634	3,497	260	14,189	7,818	101,281	103,526
2027	56,948	1,769	0	3,974	1,901	1,007	650	3,497	140	13,598	6,881	108,163	106,534
2028	53,211	1,653	0	3,713	1,637	944	666	3,497	20	13,011	6,047	114,209	109,187
2029	49,474	1,537	0	3,453	1,373	881	683	3,497	240	12,424	5,303	119,512	111,917
2030	45,736	1,421	0	3,192	1,107	818	700	3,497	240	11,837	4,640	124,152	114,715
2031	41,999	1,305	0	2,931	835	755	717	3,497	240	11,251	4,050	128,202	117,382
2032	38,262	1,189	0	2,670	562	692	735	3,497	240	10,665	3,526	131,728	120,522
2033	34,525	1,072	0	2,409	289	629	754	3,497	240	10,080	3,061	134,789	123,525
2034	30,787	956	0	2,149	134	567	772	3,497	240	9,495	2,648	137,437	126,620
2035	27,050	840	0	1,888	110	504	792	3,497	240	8,911	2,282	139,719	129,789
2036	23,313	724	0	1,627	97	441	812	3,497	240	8,327	1,928	141,677	133,054
2037	19,575	608	0	1,366	83	378	832	3,497	240	7,744	1,673	143,350	136,340
2038	15,838	492	0	1,105	69	315	853	3,497	240	7,161	1,420	144,770	139,719
2039	12,101	376	0	844	1,227	252	874	3,497	(491)	6,579	1,198	145,919	143,219
2040	9,095	283	0	615	1,827	185	896	3,497	(1,223)	6,103	1,021	146,999	146,844
2041	6,821	212	0	476	1,727	126	918	3,497	(1,223)	5,733	981	147,971	150,515
2042	4,547	141	0	317	1,627	63	941	3,497	(1,223)	5,364	957	148,828	154,278
2043	2,273	71	0	159	1,528	0	965	3,497	(1,223)	4,996	947	149,575	158,135

IN SERVICE COST (\$000)	87,429
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	75
EFFEC. TAX RATE	38.57%
DISCOUNT RATE	8.9%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	%
DEBT	44%	7.93	%
T/S	0%	0.00	%
CS	56%	12.50	%

K-FACTOR = CFWFC / IN-SVC COST = 1.7078

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_BRO
 PROGRAM NAME: Residential New Construction - Baldwin

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR. FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR. RATE MINUS LIFE	(10)*(11) TAXRATE \$(000)	SALVAGE TAXRATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	3,188	3,188	3,497	3,497	3,171	3,171	7	8,161	0	0	0	7	(2,232)
2020	7.22%	6,138	9,326	3,497	6,994	3,171	6,341	1,144	8,161	0	0	0	1,144	(1,067)
2021	6.68%	5,677	15,003	3,497	10,491	3,171	9,512	967	8,161	0	0	0	967	(801)
2022	6.18%	5,054	20,257	3,497	13,989	3,171	12,683	804	8,161	0	0	0	804	703
2023	5.71%	4,657	25,114	3,497	17,486	3,171	15,834	651	8,161	0	0	0	651	1,354
2024	5.29%	4,493	29,607	3,497	20,983	3,171	19,024	510	8,161	0	0	0	510	1,864
2025	4.89%	4,156	33,763	3,497	24,480	3,171	22,195	380	8,161	0	0	0	380	2,244
2026	4.52%	3,845	37,608	3,497	27,977	3,171	25,346	260	8,161	0	0	0	260	2,504
2027	4.46%	3,794	41,401	3,497	31,474	3,171	28,537	240	8,161	0	0	0	240	2,744
2028	4.46%	3,793	45,194	3,497	34,972	3,171	31,707	240	8,161	0	0	0	240	2,984
2029	4.46%	3,794	48,988	3,497	38,469	3,171	34,878	240	8,161	0	0	0	240	3,224
2030	4.46%	3,793	52,780	3,497	41,966	3,171	38,049	240	8,161	0	0	0	240	3,464
2031	4.46%	3,794	56,574	3,497	45,463	3,171	41,220	240	8,161	0	0	0	240	3,704
2032	4.46%	3,793	60,367	3,497	48,960	3,171	44,390	240	8,161	0	0	0	240	3,944
2033	4.46%	3,794	64,160	3,497	52,457	3,171	47,561	240	8,161	0	0	0	240	4,183
2034	4.46%	3,793	67,953	3,497	55,955	3,171	50,732	240	8,161	0	0	0	240	4,424
2035	4.46%	3,794	71,747	3,497	59,452	3,171	53,903	240	8,161	0	0	0	240	4,664
2036	4.46%	3,793	75,539	3,497	62,949	3,171	57,073	240	8,161	0	0	0	240	4,905
2037	4.46%	3,794	79,333	3,497	66,446	3,171	60,244	240	8,161	0	0	0	240	5,145
2038	4.46%	3,793	83,126	3,497	69,943	3,171	63,415	240	8,161	0	0	0	240	5,385
2039	2.23%	1,897	85,023	3,497	73,440	3,171	66,586	(491)	8,161	0	0	0	(491)	4,893
2040	0.00%	0	85,023	3,497	76,938	3,171	69,756	(1,223)	8,161	0	0	0	(1,223)	3,670
2041	0.00%	0	85,023	3,497	80,435	3,171	72,927	(1,223)	8,161	0	0	0	(1,223)	2,447
2042	0.00%	0	85,023	3,497	83,932	3,171	76,098	(1,223)	8,161	0	0	0	(1,223)	1,224
2043	0.00%	0	85,023	3,497	87,429	3,171	79,268	(1,223)	8,161	0	0	0	(1,223)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(2,219)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	8,161
BOOK DEPR RATE - /USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential New Construction - Bulk/Unit

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	3,188	7	83,922	3,497	(2,012)	89,648	86,144	87,896
2020	7.22%	6,138	1,344	80,435	6,994	(3,647)	86,144	81,492	83,823
2021	6.68%	5,677	957	76,938	10,491	(181)	81,582	77,038	79,270
2022	6.18%	5,254	884	73,440	13,989	703	77,038	72,737	74,888
2023	5.71%	4,857	651	69,943	17,486	1,354	72,737	68,590	70,664
2024	5.28%	4,493	510	66,446	20,983	1,864	68,590	64,523	66,586
2025	4.89%	4,156	380	62,949	24,480	2,344	64,523	60,705	62,644
2026	4.52%	3,845	260	59,452	27,977	2,804	60,705	56,948	58,827
2027	4.18%	3,574	160	55,955	31,474	3,244	56,948	53,211	55,079
2028	3.87%	3,341	80	52,458	34,972	3,664	53,211	49,474	51,342
2029	3.58%	3,144	20	48,961	38,469	4,064	49,474	45,736	47,605
2030	3.31%	2,981	0	45,464	41,966	4,444	45,736	41,999	43,868
2031	3.06%	2,851	0	41,967	45,463	4,804	41,999	38,262	40,130
2032	2.83%	2,751	0	38,470	48,960	5,144	38,262	34,525	36,393
2033	2.62%	2,671	0	34,973	52,457	5,464	34,525	30,787	32,656
2034	2.43%	2,601	0	31,476	55,954	5,764	30,787	27,050	28,919
2035	2.26%	2,541	0	27,979	59,451	6,044	27,050	23,313	25,181
2036	2.11%	2,491	0	24,482	62,948	6,304	23,313	19,575	21,444
2037	1.98%	2,451	0	20,985	66,445	6,544	19,575	15,838	17,707
2038	1.87%	2,421	0	17,488	69,942	6,764	15,838	12,101	13,970
2039	1.78%	2,401	(491)	13,991	73,439	6,964	12,101	8,364	9,233
2040	1.70%	2,391	(1,223)	10,494	76,936	7,144	8,364	4,627	4,490
2041	1.63%	2,391	(1,223)	6,997	80,433	7,304	4,627	9,110	7,953
2042	1.57%	2,401	(1,223)	3,499	83,930	7,444	9,110	4,573	3,616
2043	1.52%	2,421	(1,223)	0	87,427	7,564	4,573	2,223	1,136

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.092	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.62
2014	-5	3.00%	1.159	1.99%	15.29	9.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.230	37.39%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	428.27	298.34
2018	-1	3.00%	1.305	10.44%	38.79	338.36

100.00% 307.77

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(9) CUMULATIVE SPENDING W/ESCALATION (\$K/W)	(10) DEBT AFUDC (\$K/W)	(11) CUMULATIVE DEBT AFUDC (\$K/W)	(12) YEARLY TOTAL AFUDC (\$K/W)	(13) CUMULATIVE TOTAL AFUDC (\$K/W)	(14) CONSTRUCTION PERIOD INTEREST (\$K/W)	(15) CUMULATIVE CFI (\$K/W)	(16) DEFERRED TAXES (\$K/W)	(17) CUMULATIVE DEFERRED TAXES (\$K/W)	(18) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(19) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.02	0.02	0.05	0.05	0.04	0.04	0.00	0.00	0.00	0.00
2014	-5	9.29	0.29	0.30	0.79	0.84	0.65	0.70	(0.16)	(0.15)	1.29	1.29
2015	-4	37.87	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.07	8.56	19.28	23.36	15.90	19.25	(3.41)	(4.15)	351.16	412.06
2017	-2	622.20	19.46	28.81	53.10	76.45	43.47	62.72	(9.26)	(13.39)	473.37	885.43
2018	-1	334.83	29.46	57.47	80.39	156.84	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

57.47	156.84	127.50	(27.02)	1,064.61
	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS	
CONSTRUCTION CASE	74,549	74,549	74,549	
EQUITY AFUDC	8,161			
DEBT AFUDC	4,719	4,719		
CFI			10,471	
TOTAL	87,429	79,268	85,020	

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAMS USED SELECTED: KEV_REQ
 PROGRAM NAME: Residential New Construction - Buildersart

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	AVOIDED MARGINAL FUEL COST (\$/KWH)	INCREASED MARGINAL FUEL COST (\$/KWH)	REPLACEMENT FUEL COST (\$/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	2,879	2,879	6.41	9.41	6.63	0.00	1.00	1.00
2011	8,443	8,443	6.35	8.92	6.54	0.00	1.00	1.00
2012	15,608	15,608	6.45	8.31	6.69	0.00	1.00	1.00
2013	24,211	24,211	7.06	8.66	7.18	0.00	1.00	1.00
2014	34,477	34,477	7.33	9.34	7.65	0.00	1.00	1.00
2015	44,288	44,288	8.11	9.98	8.28	0.00	1.00	1.00
2016	54,090	54,090	9.06	12.06	9.25	0.00	1.00	1.00
2017	64,857	64,857	9.75	13.17	9.96	0.00	1.00	1.00
2018	74,261	74,261	10.52	13.94	10.77	0.00	1.00	1.00
2019	74,261	74,261	11.59	15.78	11.83	10.41	1.00	1.00
2020	74,261	74,261	12.08	16.43	12.45	10.50	1.00	1.00
2021	74,261	74,261	12.57	17.12	12.96	10.74	1.00	1.00
2022	74,261	74,261	13.06	17.90	13.47	10.81	1.00	1.00
2023	74,261	74,261	13.29	17.89	13.80	10.80	1.00	1.00
2024	74,261	74,261	13.95	18.59	14.37	10.84	1.00	1.00
2025	74,261	74,261	14.40	19.04	14.82	10.95	1.00	1.00
2026	74,261	74,261	14.79	19.19	15.19	11.07	1.00	1.00
2027	74,261	74,261	15.13	19.41	15.51	11.17	1.00	1.00
2028	74,261	74,261	15.60	19.84	15.97	11.36	1.00	1.00
2029	74,261	74,261	16.02	19.68	16.57	11.41	1.00	1.00
2030	74,261	74,261	16.52	20.03	16.85	11.59	1.00	1.00
2031	74,261	74,261	17.08	20.62	17.44	11.89	1.00	1.00
2032	74,261	74,261	17.59	20.32	17.78	11.88	1.00	1.00
2033	74,261	74,261	18.27	21.08	18.45	12.10	1.00	1.00
2034	74,261	74,261	18.73	20.55	18.83	12.14	1.00	1.00
2035	74,261	74,261	19.57	21.99	19.79	12.29	1.00	1.00
2036	74,261	74,261	20.40	23.09	20.49	12.55	1.00	1.00
2037	74,261	74,261	21.11	23.55	21.30	12.79	1.00	1.00
2038	74,261	74,261	22.02	24.51	22.13	13.04	1.00	1.00
2039	74,261	74,261	22.78	25.06	22.86	13.32	1.00	1.00
2040	74,261	74,261	23.39	25.57	23.05	13.44	1.00	1.00
2041	74,261	74,261	24.54	26.44	24.58	13.75	1.00	1.00
2042	74,261	74,261	25.50	27.34	25.35	14.10	1.00	1.00
2043	74,261	74,261	26.74	29.33	26.82	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

TOTAL RESOURCE COST TEST
 PROGRAM/METHOD SELECTED: REV. REQ
 PROGRAM NAME: Residential New Construction - Buildment

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN/FUNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	COMBINATION DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	794	3,974	0	4,678	0	0	230	0	230	(1)	(1)
2011	0	1,395	7,873	0	9,268	0	141	840	4	985	(4,444)	(4,063)
2012	0	1,841	10,500	0	12,341	0	418	1,777	4	2,195	(8,285)	(11,069)
2013	0	2,987	13,085	0	16,072	0	309	2,819	9	3,127	(10,179)	(12,922)
2014	0	2,772	16,259	0	19,031	0	1,253	4,254	225	5,732	(11,489)	(27,182)
2015	0	2,694	16,100	0	18,794	0	1,783	6,426	369	8,578	(13,155)	(35,696)
2016	0	2,890	16,737	0	19,627	0	2,586	9,893	545	12,924	(10,040)	(41,720)
2017	0	2,901	17,341	0	20,242	0	2,759	13,906	786	17,351	(6,572)	(45,343)
2018	0	3,041	18,177	0	21,218	0	3,321	16,048	1,042	20,391	(3,595)	(47,859)
2019	0	0	0	0	0	32,483	3,313	18,661	1,323	24,699	(326)	(47,344)
2020	0	0	0	0	0	20,900	3,789	20,432	601	24,634	46,564	(27,429)
2021	0	0	0	0	0	28,856	3,691	21,289	284	29,164	45,334	(7,883)
2022	0	0	0	0	0	19,934	3,497	22,296	202	22,498	45,208	6,611
2023	0	0	0	0	0	20,292	3,396	22,163	245	22,408	45,973	22,811
2024	0	0	0	0	0	20,519	3,298	23,014	165	23,179	46,016	33,782
2025	0	0	0	0	0	20,480	3,202	23,533	143	23,676	46,974	48,881
2026	0	0	0	0	0	20,620	3,107	23,562	67	23,629	47,283	60,989
2027	0	0	0	0	0	20,786	3,013	23,818	(17)	23,799	47,272	72,107
2028	0	0	0	0	0	20,688	2,919	24,334	(122)	24,212	47,492	82,363
2029	0	0	0	0	0	21,231	2,826	23,875	(143)	23,732	47,728	91,847
2030	0	0	0	0	0	21,226	2,731	24,251	(202)	24,049	47,729	100,542
2031	0	0	0	0	0	21,067	2,640	23,045	(225)	22,820	47,885	108,533
2032	0	0	0	0	0	21,727	2,550	24,334	(242)	24,092	48,409	116,591
2033	0	0	0	0	0	21,674	2,463	25,199	(413)	24,786	48,198	122,793
2034	0	0	0	0	0	22,682	2,381	24,041	(631)	23,410	48,505	129,079
2035	0	0	0	0	0	23,023	2,305	26,103	(1,027)	25,076	48,229	134,825
2036	0	0	0	0	0	22,810	2,236	27,464	(1,141)	26,323	48,292	140,322
2037	0	0	0	0	0	23,297	2,174	27,900	(1,286)	26,614	51,225	145,464
2038	0	0	0	0	0	23,436	2,120	29,028	(1,410)	27,618	51,942	150,254
2039	0	0	0	0	0	23,243	2,073	29,581	(1,535)	28,046	52,020	154,676
2040	0	1,477	8,335	0	9,813	23,207	2,051	30,602	(1,744)	28,858	52,153	158,732
2041	0	2,927	16,513	0	19,440	22,981	1,993	31,024	(1,934)	30,090	43,526	161,842
2042	0	3,862	22,023	0	25,885	22,578	1,854	32,033	(2,095)	30,938	34,462	164,102
2043	0	4,754	27,447	0	32,202	22,647	1,917	34,603	(1,415)	33,188	29,264	165,865
2044	0	0	0	0	0	0	0	0	(679)	32,509	26,287	167,319
2045	0	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0	0
NOM	0	31,438	194,366	0	227,804	541,791	84,788	494,137	(18,610)	1,306,084	1,078,283	
REV	0	15,508	78,921	0	92,430	97,778	21,251	139,354	1,425	259,598	167,319	

Discount Rate: 3.59 %
 Benefit/Cost Ratio (Col(11) / Col(6)) : 2.51

RATE IMPACT TEST
PROGRAM/METHOD SELECTED: KJV_REQ
PROGRAMNAME: Residential New Construction - Buldmark

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&E BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	704	2,982	216	0	3,963	230	0	0	2	232	(9)	(9)
2011	0	1,395	5,764	878	0	8,037	840	0	0	4	845	(3,671)	(3,371)
2012	0	1,941	7,485	1,977	0	11,364	1,777	0	0	9	1,785	(7,052)	(9,330)
2013	0	2,267	9,090	3,465	0	14,823	2,819	0	0	4	2,823	(9,100)	(16,368)
2014	0	2,772	11,003	5,476	0	19,252	4,254	0	0	225	3,822	(10,972)	(24,124)
2015	0	2,694	18,512	7,776	0	21,882	6,426	0	0	368	5,376	(13,375)	(38,212)
2016	0	2,890	10,762	10,128	0	21,691	9,593	0	0	545	8,754	(12,328)	(48,308)
2017	0	2,901	10,878	12,689	0	26,469	13,006	0	0	786	12,905	(10,726)	(66,218)
2018	0	3,041	11,125	15,292	0	29,468	16,048	0	0	1,042	16,847	(8,622)	(81,087)
2019	0	0	0	17,096	0	17,096	42,164	0	0	1,323	20,693	(3,900)	(85,128)
2020	0	0	0	17,149	0	17,149	41,351	0	0	601	46,564	22,463	(62,665)
2021	0	0	0	17,323	0	17,323	41,345	0	0	284	45,234	28,175	(34,490)
2022	0	0	0	18,031	0	18,031	42,231	0	0	262	45,208	27,685	(7,805)
2023	0	0	0	18,577	0	18,577	42,435	0	0	245	45,373	27,942	(21,864)
2024	0	0	0	19,402	0	19,402	43,333	0	0	143	46,974	27,439	(4,425)
2025	0	0	0	20,099	0	20,099	44,014	0	0	67	47,283	27,571	3,666
2026	0	0	0	20,906	0	20,906	44,182	0	0	(17)	47,272	27,134	10,627
2027	0	0	0	21,999	0	21,999	44,604	0	0	(22)	47,322	26,366	16,828
2028	0	0	0	22,893	0	22,893	45,022	0	0	(25)	47,492	25,492	22,334
2029	0	0	0	23,918	0	23,918	45,104	0	0	(22)	47,798	24,905	27,275
2030	0	0	0	25,088	0	25,088	45,477	0	0	(22)	47,729	23,810	31,612
2031	0	0	0	26,231	0	26,231	46,110	0	0	(22)	47,883	22,797	35,406
2032	0	0	0	27,780	0	27,780	46,061	0	0	(342)	48,409	22,178	38,834
2033	0	0	0	30,265	0	30,265	46,873	0	0	(413)	48,198	20,418	41,715
2034	0	0	0	30,832	0	30,832	46,924	0	0	(831)	48,505	18,940	44,079
2035	0	0	0	32,045	0	32,045	49,157	0	0	(1,027)	48,279	17,446	46,155
2036	0	0	0	34,238	0	34,238	50,274	0	0	(1,141)	50,292	18,947	48,150
2037	0	0	0	36,176	0	36,176	51,296	0	0	(1,236)	51,225	16,986	49,845
2038	0	0	0	37,750	0	37,750	51,665	0	0	(1,418)	51,902	15,786	51,346
2039	0	0	0	39,480	0	39,480	51,894	0	0	(1,553)	52,230	14,479	52,526
2040	0	1,477	2,982	41,319	0	45,779	53,220	0	0	(1,744)	52,153	12,674	53,512
2041	0	2,927	3,764	43,503	0	52,194	54,065	0	0	(1,934)	53,568	7,300	54,054
2042	0	3,862	7,485	45,824	0	57,182	54,612	0	0	(2,095)	53,902	1,768	54,166
2043	0	4,754	9,090	48,324	0	62,168	57,250	0	0	(2,415)	55,151	(7,031)	54,043
	0	0	0	0	0	0	0	0	0	(672)	53,498	(5,680)	53,840
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
NOM.	0	33,438	105,026	774,501	0	912,965	1,235,928	30,768	0	(10,610)	1,296,086	229,123	53,840
NPV	0	13,568	51,371	149,890	0	205,949	237,132	21,251	0	1,425	239,808	21,844	

Discount Rate: 8.25 %
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.24

RESIDENTIAL LOAD MANAGEMENT

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_MSC
PROGRAM NAME: Residential Load Management Program

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	1.13 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.50 KW
(3) KW LINE LOSS PERCENTAGE	8.65 %
(4) KW LINE LOSS PERCENTAGE	\$2.32 KVA ****
(5) GENERATOR KW REDUCTION PER CUSTOMER	6.90 %
(6) KW LINE LOSS PERCENTAGE	1.02
(7) GROUP LINE LOSS MULTIPLIER	29.7% KVA ****
(8) CUSTOMER KVA INCREASE AT METER	

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.78738
(5) K FACTOR FOR T & D	1.63254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %
(8) INCREASED SURVEY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATE	*** %
(10) UTILITY DISCOUNT RATE	3.89 %
(11) UTILITY FUND RATE	8.48 %
(12) UTILITY NON RECURRING KERRATE INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING KERRATE INCENTIVE	*** \$/CUST
(14) UTILITY REBATE INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2019-2019
(4) BASE YEAR AVOIDED GENERATING COST	75.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	12.58 \$/KW
(7) GEN, TRAN & DIST. COST ESCALATION RATE	3.81 %
(8) GENERATOR FIXED O & M COST	57.66 \$/KW/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	2.50 %
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O & M ESCALATION RATE	2.50 %
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS\$/KW
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	5.23 CENTS \$/KW** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS\$/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2
 **** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KVA/COST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KW/COST THAT IS PAID BACK DURING OFF-PEAK.

CALCULATION OF GEN/FACOR
PROGRAM METHOD SELECTED REV_NSG
PROGRAM NAME Residential Load Management Program

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REG-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPRECC \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	76,844	2,387	0	5,345	3,538	1,295	457	2,598	6	16,043	16,043	74,942
2020	73,840	2,294	0	5,153	2,431	1,241	469	2,598	381	15,566	14,296	76,815
2021	69,861	2,170	0	4,875	2,469	1,187	480	2,598	829	14,948	12,608	78,736
2022	65,035	2,051	0	4,608	2,381	1,133	492	2,598	689	14,333	11,117	80,704
2023	61,349	1,937	0	4,351	2,351	1,079	503	2,598	538	13,778	9,261	82,722
2024	58,753	1,826	0	4,103	2,315	1,025	517	2,598	437	13,222	8,038	84,790
2025	55,253	1,720	0	3,863	2,276	971	530	2,598	325	12,684	7,610	86,910
2026	52,055	1,616	0	3,631	2,233	917	543	2,598	223	12,162	6,702	89,082
2027	48,814	1,516	0	3,407	2,189	863	557	2,598	206	11,656	5,899	91,309
2028	45,611	1,417	0	3,183	2,149	809	571	2,598	206	11,153	5,183	93,591
2029	42,447	1,317	0	2,960	2,103	755	585	2,598	206	10,649	4,545	95,932
2030	39,284	1,218	0	2,736	1,988	701	600	2,598	206	10,147	3,977	98,330
2031	36,090	1,118	0	2,512	1,848	647	615	2,598	206	9,644	3,472	100,788
2032	32,797	1,019	0	2,289	1,697	594	630	2,598	206	9,142	3,022	103,308
2033	29,594	919	0	2,065	1,527	540	646	2,598	206	8,640	2,625	105,891
2034	26,390	820	0	1,842	1,327	486	662	2,598	206	8,139	2,270	108,538
2035	23,187	720	0	1,618	986	432	679	2,598	206	7,638	1,956	111,252
2036	19,983	621	0	1,395	846	378	696	2,598	206	7,138	1,679	114,030
2037	16,780	521	0	1,171	705	324	713	2,598	206	6,638	1,434	116,884
2038	13,576	422	0	947	565	270	731	2,598	206	6,138	1,218	119,806
2039	10,373	322	0	724	425	216	749	2,598	(421)	5,639	1,027	122,801
2040	7,206	242	0	504	286	162	768	2,598	(1,048)	5,221	875	125,871
2041	5,847	182	0	408	156	103	787	2,598	(1,048)	4,914	755	129,018
2042	3,898	121	0	272	1,480	54	807	2,598	(1,048)	4,598	649	132,243
2043	1,949	61	0	136	1,395	0	827	2,598	(1,048)	4,282	555	135,540

IN SERVICE COST	\$(000)	74,942
IN SERVICE YEAR		2019
BOOK LIFE (YRS)		25
DEFERR. TAX RATE		38.57%
DISCOUNT RATE		8.9%
PROPERTY TAX		1.80%
PROPERTY INSURANCE		0.62%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	46%	7.5%
P/S	0%	0.00
C/E	56%	12.50

X-FACTOR = CPWFC / IN-SVC COST =

1.70738

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM(METHOD) SELECTED:REV_RBQ
 PROGRAMNAME: Residential Lead Management Program

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (7)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	2,733	2,733	2,998	2,998	2,718	2,718	8	6,995	0	0	0	6	(1,894)
2020	7.50%	5,466	7,994	2,998	5,996	2,718	5,436	981	6,995	0	0	0	981	(915)
2021	6.88%	4,866	12,860	2,998	8,994	2,718	8,154	429	6,995	0	0	0	429	(80)
2022	6.18%	4,344	17,204	2,998	11,991	2,718	10,871	689	6,995	0	0	0	689	695
2023	5.71%	4,163	21,327	2,998	14,989	2,718	13,589	338	6,995	0	0	0	338	1,100
2024	5.29%	3,892	25,379	2,998	17,987	2,718	16,307	437	6,995	0	0	0	437	1,538
2025	4.89%	3,582	28,941	2,998	20,984	2,718	18,625	326	6,995	0	0	0	326	1,923
2026	4.52%	3,295	32,236	2,998	23,981	2,718	21,743	222	6,995	0	0	0	222	2,146
2027	4.40%	3,232	35,433	2,998	26,979	2,718	24,461	206	6,995	0	0	0	206	2,332
2028	4.40%	3,232	38,739	2,998	29,977	2,718	27,179	206	6,995	0	0	0	206	2,538
2029	4.40%	3,232	41,991	2,998	32,974	2,718	29,897	206	6,995	0	0	0	206	2,764
2030	4.40%	3,232	45,242	2,998	35,972	2,718	32,614	206	6,995	0	0	0	206	2,969
2031	4.40%	3,232	48,494	2,998	38,970	2,718	35,332	206	6,995	0	0	0	206	3,179
2032	4.40%	3,232	51,745	2,998	41,967	2,718	38,050	206	6,995	0	0	0	206	3,381
2033	4.40%	3,232	54,996	2,998	44,965	2,718	40,768	206	6,995	0	0	0	206	3,587
2034	4.40%	3,232	58,248	2,998	47,963	2,718	43,486	206	6,995	0	0	0	206	3,793
2035	4.40%	3,232	61,499	2,998	50,960	2,718	46,204	206	6,995	0	0	0	206	4,004
2036	4.40%	3,232	64,750	2,998	53,958	2,718	48,922	206	6,995	0	0	0	206	4,210
2037	4.40%	3,232	68,002	2,998	56,956	2,718	51,640	206	6,995	0	0	0	206	4,416
2038	4.40%	3,232	71,253	2,998	59,953	2,718	54,357	206	6,995	0	0	0	206	4,616
2039	2.23%	1,626	72,879	2,998	62,951	2,718	57,075	(421)	6,995	0	0	0	(421)	4,195
2040	0.00%	0	72,879	2,998	65,949	2,718	59,793	(1,048)	6,995	0	0	0	(1,048)	3,146
2041	0.00%	0	72,879	2,998	68,946	2,718	62,511	(1,048)	6,995	0	0	0	(1,048)	2,098
2042	0.00%	0	72,879	2,998	71,944	2,718	65,229	(1,048)	6,995	0	0	0	(1,048)	1,049
2043	0.00%	0	72,879	2,998	74,942	2,718	67,947	(1,048)	6,995	0	0	0	(1,048)	1

SALVAGE/REMOVAL COST	6.00
YEAR SALVAGE / COST OF REMOVAL	2020
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,902)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	6,995
BOOK DEPR RATE - USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV REQ
 PROGRAM NAME: Residential Lead Management Program

(1)	(2)	(3)	(4)	(5) END OF YEAR	(6)*	(6)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	NET PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2019	3.75%	2,733	6	71,944	2,998	(1,896)	76,844	73,840	75,342
2020	7.22%	5,261	981	68,946	5,995	(915)	73,840	69,361	71,851
2021	6.68%	4,866	827	65,949	8,593	(86)	69,361	66,035	67,948
2022	6.18%	4,504	689	62,951	11,591	603	66,035	62,349	64,192
2023	5.71%	4,163	558	59,953	14,588	1,160	62,349	58,793	60,571
2024	5.29%	3,832	437	56,946	17,586	1,598	58,793	55,538	57,076
2025	4.89%	3,502	326	53,938	20,584	1,923	55,538	52,035	53,697
2026	4.52%	3,205	223	50,930	23,581	2,346	52,035	48,814	50,423
2027	4.40%	3,252	206	47,963	26,579	2,581	48,814	45,611	47,213
2028	4.40%	3,251	206	44,965	29,577	2,588	45,611	42,407	44,009
2029	4.40%	3,252	206	41,967	32,574	2,764	42,407	39,204	40,806
2030	4.40%	3,251	206	38,970	35,572	2,969	39,204	36,000	37,603
2031	4.40%	3,252	206	35,972	38,570	3,173	36,000	32,797	34,399
2032	4.40%	3,251	206	32,974	41,567	3,381	32,797	29,594	31,195
2033	4.40%	3,252	206	29,977	44,565	3,587	29,594	26,391	27,992
2034	4.40%	3,251	206	26,979	47,563	3,793	26,391	23,187	24,788
2035	4.40%	3,252	206	23,981	50,560	3,998	23,187	19,983	21,585
2036	4.40%	3,251	206	20,984	53,558	4,204	19,983	16,780	18,381
2037	4.40%	3,252	206	17,986	56,556	4,410	16,780	13,576	15,178
2038	4.40%	3,251	206	14,988	59,553	4,616	13,576	10,373	11,974
2039	2.22%	1,626	(421)	11,991	62,551	4,195	10,373	7,170	9,084
2040	0.00%	0	(1,048)	8,993	65,549	3,146	7,170	5,847	6,833
2041	0.00%	0	(1,048)	5,995	68,546	2,098	5,847	3,898	4,872
2042	0.00%	0	(1,048)	2,998	71,544	1,049	3,898	1,948	2,923
2043	0.00%	0	(1,048)	0	74,542	1	1,948	-1	974

* Column not specified in workbook

(1) YEAR	(2) NO YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.02
2014	-5	3.00%	1.159	1.50%	15.39	5.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	378.84
2018	-1	3.00%	1.305	10.44%	98.79	838.38

100.00% 907.77

YEAR	NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(9a) DEBT AFUDC (\$K/W)	(8b) CUMULATIVE DEBT AFUDC (\$K/W)	(9) YEARLY TOTAL AFUDC (\$K/W)	(9c) TOTAL AFUDC (\$K/W)	(9d) CONSTRUCTION PERIOD INTEREST (\$K/W)	(9e) CUMULATIVE CPI (\$K/W)	(9f) DEFERRED TAXES (\$K/W)	(9g) CUMULATIVE DEFERRED TAXES (\$K/W)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.02	0.02	0.02	0.05	0.05	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	0.30	0.79	0.84	0.65	0.70	(0.16)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.07	8.36	19.29	21.36	15.90	19.25	(5.41)	(4.13)	351.16	412.06
2017	-2	622.29	19.46	28.91	53.10	76.45	49.47	62.72	(9.26)	(13.39)	473.37	885.43
2018	-1	934.83	29.46	37.47	80.39	156.84	64.78	127.50	(13.65)	(27.62)	179.18	1,064.61

37.47

156.84

127.50

(27.62)

1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,855
AFUDC RATE	8.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAC BASIS
CONSTRUCTION CASH	63,901	63,901	63,901
EQUITY AFUDC	6,995		
DEBT AFUDC	4,845	4,845	8,975
CPI			
TOTAL	74,942	67,947	72,877

* Column not specified in workbook

INFODATA--PART 2
PROGRAM/STATION SELECTED:REV_REQ
PROGRAM/NAME: Residential Lead Management Program

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	AVOIDED MARGINAL FUEL COST (\$/KWH)	INCREASED MARGINAL FUEL COST (\$/KWH)	REPLACEMENT FUEL COST (\$/KWH)	PROGRAM/KW EFFECTIVENESS FACTOR	PROGRAM/KW INEFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	9,615	9,615	6.41	16.53	6.41	0.00	1.00	1.00
2011	19,230	19,230	6.35	18.38	6.35	0.00	1.00	1.00
2012	28,845	28,845	6.43	13.34	6.43	0.00	1.00	1.00
2013	31,845	31,845	7.06	9.99	7.06	0.00	1.00	1.00
2014	34,845	34,845	7.53	10.61	7.53	0.00	1.00	1.00
2015	37,845	37,845	8.11	13.00	8.11	0.00	1.00	1.00
2016	40,845	40,845	9.00	13.98	9.00	0.00	1.00	1.00
2017	43,845	43,845	9.75	13.09	9.75	0.00	1.00	1.00
2018	46,845	46,845	10.32	15.46	10.32	0.00	1.00	1.00
2019	46,845	46,845	11.50	21.44	11.50	10.41	1.00	1.00
2020	46,845	46,845	12.08	20.17	12.08	10.50	1.00	1.00
2021	46,845	46,845	12.57	21.76	12.57	10.74	1.00	1.00
2022	46,845	46,845	13.06	23.66	13.06	10.81	1.00	1.00
2023	46,845	46,845	13.59	20.91	13.59	10.80	1.00	1.00
2024	46,845	46,845	13.95	22.19	13.95	10.84	1.00	1.00
2025	46,845	46,845	14.40	22.30	14.40	10.96	1.00	1.00
2026	46,845	46,845	14.76	22.41	14.76	11.05	1.00	1.00
2027	46,845	46,845	15.13	23.05	15.13	11.17	1.00	1.00
2028	46,845	46,845	15.60	23.70	15.60	11.26	1.00	1.00
2029	46,845	46,845	16.02	22.95	16.02	11.41	1.00	1.00
2030	46,845	46,845	16.52	23.78	16.52	11.59	1.00	1.00
2031	46,845	46,845	17.08	24.53	17.08	11.89	1.00	1.00
2032	46,845	46,845	17.50	24.35	17.50	11.88	1.00	1.00
2033	46,845	46,845	18.27	25.51	18.27	12.10	1.00	1.00
2034	46,845	46,845	18.73	25.89	18.73	12.14	1.00	1.00
2035	46,845	46,845	19.37	27.04	19.37	12.28	1.00	1.00
2036	46,845	46,845	20.48	28.26	20.48	12.55	1.00	1.00
2037	46,845	46,845	21.11	29.23	21.11	12.79	1.00	1.00
2038	46,845	46,845	22.02	30.23	22.02	13.04	1.00	1.00
2039	46,845	46,845	22.78	31.29	22.78	13.32	1.00	1.00
2040	46,845	46,845	23.59	32.02	23.59	13.44	1.00	1.00
2041	46,845	46,845	24.54	33.28	24.54	13.75	1.00	1.00
2042	46,845	46,845	25.50	34.66	25.50	14.10	1.00	1.00
2043	46,845	46,845	26.74	36.49	26.74	14.40	1.00	1.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHEDDING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

AVOIDED TAB AND PROGRAM FUEL SAVINGS
PROGRAM CREDITED SELECTED: REV. 1/93
PROGRAM NAME: Residential Load Management Program

(1) YEAR	(2) AVOIDED TRANSMISSION CAP COST \$(000)	(3) AVOIDED TRANSMISSION O&M COST \$(000)	(4) TOTAL AVOIDED TRANSMISSION COST \$(000)	(5) AVOIDED DISTRIBUTION CAP COST \$(000)	(6) AVOIDED DISTRIBUTION O&M COST \$(000)	(7) TOTAL AVOIDED DISTRIBUTION COST \$(000)	(8) PROGRAM FUEL SAVINGS \$(000)	(9)* PROGRAM OFF-PEAK PAYBACK \$(000)
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	50	10
2011	541	43	584	27	11	38	88	29
2012	1,082	88	1,169	54	23	78	195	49
2013	1,623	149	1,772	81	36	117	378	68
2014	1,790	167	1,956	87	41	128	282	80
2015	1,878	186	2,064	94	46	140	282	94
2016	2,008	206	2,214	100	51	151	318	113
2017	2,140	226	2,366	107	56	163	372	132
2018	2,273	248	2,521	114	62	176	404	152
2019	2,408	264	2,672	120	68	188	462	181
2020	2,524	280	2,804	116	70	186	557	181
2021	2,641	287	2,927	113	71	183	604	188
2022	2,159	273	2,432	108	73	181	602	195
2023	2,878	280	3,158	104	75	179	571	200
2024	1,998	287	2,285	100	77	177	608	209
2025	1,919	294	2,213	96	79	175	605	215
2026	1,840	302	2,142	92	81	173	609	220
2027	1,761	309	2,071	88	83	171	626	226
2028	1,682	317	2,000	84	85	169	643	233
2029	1,604	325	1,929	80	87	167	616	240
2030	1,526	333	1,859	76	89	165	639	247
2031	1,449	341	1,790	72	91	164	639	255
2032	1,378	350	1,728	69	94	163	656	262
2033	1,314	359	1,672	66	96	162	681	273
2034	1,256	368	1,624	63	98	161	699	280
2035	1,202	377	1,579	60	101	161	721	285
2036	1,150	386	1,537	57	103	161	754	316
2037	1,101	396	1,497	55	106	161	779	316
2038	1,055	406	1,461	53	109	161	804	329
2039	1,011	416	1,428	51	111	162	833	341
2040	970	426	1,397	49	114	163	856	353
2041	929	437	1,366	46	117	163	883	367
2042	889	448	1,337	44	120	164	920	381
2043	848	459	1,307	42	123	165	970	400
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
NOML	51,383	9,985	61,370	2,568	2,948	5,516	19,825	7,488
NPV	16,280	2,213	18,493	814	578	1,392	4,232	1,497

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST
PROGRAM/MS/SD SELECTED: REV_REQ
PROGRAMNAME: Residential Lead Management Program

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GENTURY BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	515	0	0	515	0	0	48	0	48	(475)	(475)
2011	0	1,108	0	0	1,108	0	0	59	2	63	(485)	(860)
2012	0	1,811	0	0	1,811	0	1,347	146	3	1,356	(415)	(1,167)
2013	0	2,062	0	0	2,062	0	1,586	185	11	2,061	(50)	(1,210)
2014	0	2,197	0	0	2,197	0	2,045	122	12	2,179	(19)	(1,222)
2015	0	2,144	0	0	2,144	0	2,204	187	17	2,408	263	(1,664)
2016	0	1,892	0	0	1,892	0	2,363	285	20	2,590	698	(879)
2017	0	1,628	0	0	1,628	0	2,530	240	25	2,795	1,167	(104)
2018	0	1,577	0	0	1,577	0	2,677	292	27	2,975	1,398	546
2019	0	1,459	0	0	1,459	19,272	2,351	430	(793)	21,762	20,303	9,322
2020	0	1,291	0	0	1,291	17,915	2,770	576	(1,168)	19,893	18,602	16,503
2021	0	1,129	0	0	1,129	17,192	2,911	417	(1,294)	19,005	17,875	22,938
2022	0	996	0	0	996	17,087	2,619	467	(1,497)	18,670	17,675	28,785
2023	0	830	0	0	830	17,294	2,537	370	(1,654)	18,648	17,818	34,198
2024	0	765	0	0	765	17,588	2,402	309	(1,805)	18,564	17,800	39,162
2025	0	784	0	0	784	17,555	2,388	389	(2,151)	18,181	17,008	43,617
2026	0	802	0	0	802	17,675	2,515	389	(2,327)	18,051	17,148	47,674
2027	0	823	0	0	823	17,817	2,242	400	(2,618)	17,641	17,117	51,340
2028	0	844	0	0	844	17,723	2,169	410	(2,830)	17,463	16,629	54,646
2029	0	865	0	0	865	18,189	2,097	377	(3,200)	17,472	16,607	57,671
2030	0	887	0	0	887	18,194	2,024	392	(3,540)	17,078	16,184	60,379
2031	0	909	0	0	909	18,658	1,954	404	(3,825)	16,831	15,672	62,787
2032	0	932	0	0	932	18,624	1,890	395	(4,189)	16,728	15,791	65,015
2033	0	955	0	0	955	18,578	1,834	408	(4,609)	16,589	15,551	66,929
2034	0	979	0	0	979	19,443	1,785	416	(5,078)	16,589	15,281	68,777
2035	0	1,003	0	0	1,003	19,736	1,740	428	(5,499)	16,664	15,051	70,422
2036	0	1,028	0	0	1,028	19,662	1,697	440	(6,081)	16,317	14,789	71,857
2037	0	1,054	0	0	1,054	19,570	1,658	463	(6,706)	16,325	14,531	73,160
2038	0	1,080	0	0	1,080	19,463	1,622	475	(7,383)	16,016	14,235	74,283
2039	0	1,107	0	0	1,107	19,065	1,589	492	(8,126)	15,011	13,904	75,180
2040	0	1,133	0	0	1,133	19,893	1,559	497	(8,929)	14,544	13,611	76,069
2041	0	1,171	0	0	1,171	19,629	1,530	517	(9,881)	14,264	13,409	76,711
2042	0	1,211	0	0	1,211	19,264	1,501	530	(10,973)	13,921	13,210	77,232
2043	0	1,254	0	0	1,254	18,412	1,473	570	(12,192)	13,692	13,036	77,920
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
NOM	0	41,599	0	0	41,599	444,409	66,586	12,218	(115,106)	428,106	386,507	
NPV	0	14,412	0	0	14,412	83,812	19,885	2,735	(14,180)	92,332	77,920	

Discount Rate: %
Benefit/Cost Ratio (Col(11) / Col(6)) :

RESIDENTIAL AC TUNE-UP AND MAINTENANCE

INPUT DATA - PART I CONTINUED
PROGRAM METHOD SELECTED: RES_RBP
PROGRAM NAME: Residential AC Time-up and Maintenance

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.21 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	4.28 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KW REDUCTION PER CUSTOMER	446.65 kWh
(5) KW LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.00 KVA

II. ECONOMIC LIFE & X FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) X FACTOR FOR GENERATION	1.7078
(5) X FACTOR FOR T & D	1.6254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	--- \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	--- \$/CUST
(3) UTILITY COST ESCALATION RATE	--- %
(4) CUSTOMER EQUIPMENT COST	--- \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	--- %
(6) CUSTOMER O & M COST	--- \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	--- %
(8) INCREASED SUPPLY COSTS	--- \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	--- %
(10) UTILITY DISCOUNT RATE	8.89 %
(11) UTILITY AFUDC RATE	8.48 %
(12) UTILITY NON RECURRING REBATE INCENTIVE	--- \$/CUST
(13) UTILITY RECURRING REBATE INCENTIVE	--- \$/CUST
(14) UTILITY REBATE INCENTIVE ESCALATION RATE	--- %

- SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
- VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
--- PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2010-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS\$/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	8.23 CENTS PER KW-HR ** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	--- CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	--- %
(3) DEMAND CHARGE IN CUSTOMER BILL	--- \$/KW/MD
(4) DEMAND CHARGE ESCALATION RATE	--- %

CALCULATION OF K-FACTOR
PROGRAM/TITLE: SELECTED REV_REQ
PROGRAM NAME: Residential AC Time-up and Maintenance

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REQ-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPRFC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	25,391	727	0	1,672	1,077	394	139	912	2	4,884	4,884	22,812	25,383
2020	22,477	698	0	1,509	740	378	143	912	289	4,738	4,352	9,233	23,967
2021	21,266	661	0	1,484	733	361	146	912	222	4,520	3,835	13,073	24,566
2022	20,101	624	0	1,403	725	345	150	912	210	4,309	3,384	16,457	25,181
2023	18,979	590	0	1,294	716	328	154	912	178	4,194	2,983	19,441	25,810
2024	17,897	556	0	1,249	705	312	157	912	133	4,025	2,629	22,070	26,455
2025	16,851	523	0	1,176	693	296	161	912	99	3,861	2,317	24,387	27,117
2026	15,839	492	0	1,185	680	279	165	912	68	3,702	2,040	26,427	27,795
2027	14,859	462	0	1,037	642	263	170	912	43	3,548	1,795	28,222	28,490
2028	13,894	431	0	969	599	246	174	912	23	3,395	1,578	29,800	29,202
2029	12,949	401	0	901	557	230	178	912	13	3,242	1,384	31,184	29,932
2030	11,934	371	0	833	514	214	183	912	6	3,089	1,211	32,394	30,680
2031	10,959	340	0	765	471	197	187	912	3	2,936	1,057	33,451	31,447
2032	9,983	310	0	697	428	181	192	912	3	2,783	920	34,371	32,229
2033	9,008	280	0	629	386	164	197	912	3	2,630	799	35,170	33,039
2034	8,033	250	0	561	343	148	202	912	3	2,478	691	35,861	33,865
2035	7,058	219	0	493	300	131	207	912	3	2,325	595	36,456	34,712
2036	6,083	189	0	425	257	115	212	912	3	2,173	511	36,967	35,580
2037	5,108	159	0	356	215	99	217	912	3	2,021	436	37,404	36,469
2038	4,133	128	0	288	172	82	222	912	3	1,868	371	37,774	37,381
2039	3,157	98	0	220	130	66	228	912	(128)	1,717	313	38,087	38,315
2040	2,373	74	0	166	477	49	234	912	(319)	1,592	265	38,353	39,273
2041	1,780	55	0	124	451	33	240	912	(319)	1,496	230	38,583	40,255
2042	1,186	37	0	83	425	16	246	912	(319)	1,400	198	38,781	41,261
2043	593	18	0	41	389	(0)	252	912	(319)	1,303	169	38,950	

IN SERVICE COST (\$000)	22,812
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
DEPRFC. RATE	38.575
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	6.61%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	44%	7.03
R/S	0%	8.20
CS	56%	12.50

K-FACTOR = CPWFC / IN-SVC COST =

1.70738

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential AC Tune-up and Maintenance

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK/BLR RATE MINUS 1/LIFE	(10)*(11)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	832	832	912	912	827	827	2	2,129	0	0	0	2	(577)
2020	7.22%	1,681	2,433	912	1,825	827	1,655	209	2,129	0	0	0	299	(279)
2021	6.68%	1,481	3,915	912	2,737	827	2,482	232	2,129	0	0	0	258	(26)
2022	6.18%	1,371	5,286	912	3,650	827	3,309	210	2,129	0	0	0	210	183
2023	5.71%	1,267	6,553	912	4,502	827	4,137	170	2,129	0	0	0	170	353
2024	5.29%	1,172	7,725	912	5,475	827	4,964	133	2,129	0	0	0	133	486
2025	4.89%	1,084	8,810	912	6,387	827	5,791	99	2,129	0	0	0	99	585
2026	4.52%	1,003	9,813	912	7,300	827	6,619	68	2,129	0	0	0	68	653
2027	4.46%	990	10,803	912	8,212	827	7,446	63	2,129	0	0	0	63	716
2028	4.46%	990	11,792	912	9,125	827	8,273	63	2,129	0	0	0	63	779
2029	4.46%	990	12,782	912	10,037	827	9,101	63	2,129	0	0	0	63	841
2030	4.46%	990	13,772	912	10,950	827	9,928	63	2,129	0	0	0	63	904
2031	4.46%	990	14,762	912	11,862	827	10,755	63	2,129	0	0	0	63	967
2032	4.46%	990	15,752	912	12,775	827	11,583	63	2,129	0	0	0	63	1,029
2033	4.46%	990	16,741	912	13,687	827	12,410	63	2,129	0	0	0	63	1,092
2034	4.46%	990	17,731	912	14,600	827	13,237	63	2,129	0	0	0	63	1,154
2035	4.46%	990	18,720	912	15,512	827	14,065	63	2,129	0	0	0	63	1,217
2036	4.46%	990	19,710	912	16,425	827	14,892	63	2,129	0	0	0	63	1,280
2037	4.46%	990	20,700	912	17,337	827	15,719	63	2,129	0	0	0	63	1,342
2038	4.46%	990	21,690	912	18,250	827	16,546	63	2,129	0	0	0	63	1,405
2039	2.23%	425	22,184	912	19,162	827	17,374	(128)	2,129	0	0	0	(128)	1,277
2040	0.00%	0	22,184	912	20,075	827	18,201	(519)	2,129	0	0	0	(519)	958
2041	0.00%	0	22,184	912	20,987	827	19,028	(519)	2,129	0	0	0	(519)	639
2042	0.00%	0	22,184	912	21,900	827	19,856	(519)	2,129	0	0	0	(519)	319
2043	0.00%	0	22,184	912	22,812	827	20,683	(519)	2,129	0	0	0	(519)	0

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(577)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	2,129
BOOK DEPRECIATION - 1/USEFUL LIFE	4.68%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: XBY_RSC
 PROGRAM NAME: Residential AC Turn-up and Maintenance

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	322	2	21,900	912	(577)	21,391	22,477	22,934
2020	7.22%	1,601	299	20,987	1,825	(209)	22,477	21,266	21,871
2021	6.88%	1,481	292	20,075	2,737	(26)	21,266	20,101	20,684
2022	6.18%	1,371	210	19,162	3,650	153	20,101	18,979	19,540
2023	5.73%	1,267	170	18,250	4,562	353	18,979	17,897	18,438
2024	5.29%	1,172	133	17,337	5,475	486	17,897	16,851	17,374
2025	4.83%	1,084	99	16,425	6,387	585	16,851	15,839	16,345
2026	4.52%	1,003	68	15,512	7,300	653	15,839	14,839	15,349
2027	4.46%	990	63	14,600	8,212	716	14,839	13,884	14,372
2028	4.46%	990	63	13,687	9,125	779	13,884	12,969	13,395
2029	4.46%	990	63	12,775	10,037	841	12,969	11,974	12,421
2030	4.46%	990	63	11,862	10,950	904	11,974	10,959	11,446
2031	4.46%	990	63	10,950	11,863	967	10,959	9,983	10,471
2032	4.46%	990	63	10,037	12,775	1,029	9,983	9,008	9,496
2033	4.46%	990	63	9,125	13,687	1,092	9,008	8,033	8,521
2034	4.46%	990	63	8,212	14,600	1,154	8,033	7,058	7,546
2035	4.46%	990	63	7,300	15,512	1,217	7,058	6,083	6,570
2036	4.46%	990	63	6,387	16,425	1,280	6,083	5,108	5,595
2037	4.46%	990	63	5,475	17,337	1,342	5,108	4,133	4,620
2038	4.46%	990	63	4,562	18,250	1,405	4,133	3,157	3,645
2039	2.23%	495	(128)	3,650	19,162	1,277	3,157	2,373	2,765
2040	0.00%	0	(319)	2,737	20,075	958	2,373	1,780	2,076
2041	0.00%	0	(319)	1,825	20,987	639	1,780	1,186	1,483
2042	0.00%	0	(319)	912	21,900	319	1,186	593	890
2043	0.00%	0	(319)	(0)	22,812	0	593	0	296

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K)W	(7) CUMULATIVE AVERAGE SPENDING (\$K)W
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.62
2014	-5	3.00%	1.159	1.99%	15.99	9.24
2015	-4	3.00%	1.194	4.57%	39.41	37.03
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	592.84
2018	-1	3.00%	1.305	10.44%	52.79	833.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) CUMULATIVE SPENDING WITH AFUDC (\$K)W	(3a)* DEBT AFUDC (\$K)W	(3b)* CUMULATIVE DEBT AFUDC (\$K)W	(4) YEARLY TOTAL AFUDC (\$K)W	(4a)* TOTAL AFUDC (\$K)W	(4b)* CONSTRUCTION PERIOD INTEREST (\$K)W	(5)* CUMULATIVE CPI (\$K)W	(5a)* DEFERRED TAXES (\$K)W	(5b)* CUMULATIVE DEFERRED TAXES (\$K)W	(6)	(7)
											INCREMENTAL YEAR-END BOOK VALUE (\$K)W	CUMULATIVE YEAR-END BOOK VALUE (\$K)W
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.62	0.62	0.65	0.65	0.04	0.04	(0.61)	(0.61)	1.29	1.29
2014	-5	2.29	0.29	0.30	0.79	0.84	0.45	0.70	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.87	8.56	19.29	23.56	15.90	19.25	(3.41)	(4.15)	351.16	412.06
2017	-2	622.28	19.46	28.81	59.10	76.45	43.47	62.72	(9.26)	(23.39)	473.57	885.43
2018	-1	954.83	25.46	57.47	90.39	156.84	64.78	127.50	(23.03)	(27.82)	779.18	1,664.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,865
AFUDC RATE	8.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	19,432	19,432	19,432
EQUITY AFUDC	2,129		
DEBT AFUDC	1,231	1,231	
CPI			2,732
TOTAL	22,802	20,663	22,164

* Column not specified in work book

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV_XBO
 PROGRAM NAME: Residential AC Time-up and Maintenance

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KW)	(5) AVOIDED MARGINAL FUEL COST (\$/KW)	(6)* INCREASED MARGINAL FUEL COST (\$/KW)	(7) REPLACEMENT FUEL COST (\$/KW)	(8) PROGRAM KW EFFECTIVENESS FACTOR	(9) PROGRAM KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	0	0	6.41	16.51	6.41	0.00	1.00	1.00
2011	6,697	6,697	6.35	8.64	6.38	0.00	1.00	1.00
2012	14,185	14,185	6.43	8.82	6.63	0.00	1.00	1.00
2013	22,294	22,294	7.06	8.53	7.28	0.00	1.00	1.00
2014	31,334	31,334	7.53	8.80	7.67	0.00	1.00	1.00
2015	41,304	41,304	8.11	9.77	8.29	0.00	1.00	1.00
2016	52,283	52,283	9.00	11.78	9.28	0.00	1.00	1.00
2017	64,265	64,265	9.75	12.96	10.02	0.00	1.00	1.00
2018	77,635	77,635	10.82	13.73	10.81	0.00	1.00	1.00
2019	77,635	77,635	11.50	15.23	11.29	19.61	1.00	1.00
2020	77,635	77,635	12.08	16.18	12.51	18.50	1.00	1.00
2021	77,635	77,635	12.57	16.83	13.02	18.74	1.00	1.00
2022	77,635	77,635	13.06	17.22	13.54	18.81	1.00	1.00
2023	77,635	77,635	13.29	17.56	13.96	18.80	1.00	1.00
2024	77,635	77,635	13.95	18.19	14.42	19.24	1.00	1.00
2025	77,635	77,635	14.40	18.66	14.87	19.96	1.00	1.00
2026	77,635	77,635	14.70	18.89	15.15	19.85	1.00	1.00
2027	77,635	77,635	15.13	18.94	15.56	19.17	1.00	1.00
2028	77,635	77,635	15.62	19.36	16.02	19.36	1.00	1.00
2029	77,635	77,635	16.02	19.22	16.48	19.41	1.00	1.00
2030	77,635	77,635	16.52	19.60	16.88	19.59	1.00	1.00
2031	77,635	77,635	17.08	20.24	17.44	19.80	1.00	1.00
2032	77,635	77,635	17.50	19.92	17.81	19.88	1.00	1.00
2033	77,635	77,635	18.27	20.69	18.47	22.10	1.00	1.00
2034	77,635	77,635	18.73	20.28	18.84	22.14	1.00	1.00
2035	77,635	77,635	19.57	21.64	19.72	22.29	1.00	1.00
2036	77,635	77,635	20.40	22.69	20.51	22.53	1.00	1.00
2037	77,635	77,635	21.11	23.18	22.22	22.70	1.00	1.00
2038	77,635	77,635	22.02	24.15	22.14	23.04	1.00	1.00
2039	77,635	77,635	22.78	24.74	22.87	23.22	1.00	1.00
2040	77,635	77,635	23.59	25.27	23.66	23.44	1.00	1.00
2041	77,635	77,635	24.54	26.14	24.60	23.75	1.00	1.00
2042	77,635	77,635	25.50	27.05	25.37	24.10	1.00	1.00
2043	77,635	77,635	26.74	28.95	26.83	24.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

AVOIDED GENERATING BENEFITS
PROGRAM(Checked) Selected; REV_REQ
PROGRAM NAME: Residential AC Tune-up and Maintenance

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2009	0	0	0	0	0	0
2010	0	0	0	0	0	0
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	0	0	0
2019	4,534	2,679	113	6,922	3,630	5,866
2020	4,738	2,746	103	10,459	12,294	5,423
2021	4,550	2,814	171	10,486	12,788	5,223
2022	4,569	2,885	181	11,059	13,332	5,201
2023	4,194	2,957	191	11,668	13,716	5,295
2024	4,925	3,031	203	12,236	14,239	5,354
2025	3,861	3,104	216	13,170	15,410	5,344
2026	3,702	3,184	232	14,074	15,812	5,380
2027	3,518	3,264	245	14,855	16,439	5,423
2028	3,395	3,345	252	15,250	16,844	5,394
2029	3,282	3,429	264	15,892	17,287	5,540
2030	3,039	3,515	278	16,426	17,978	5,538
2031	2,934	3,603	284	16,979	18,304	5,497
2032	2,783	3,693	295	17,378	18,680	5,609
2033	2,630	3,785	305	17,842	19,427	5,655
2034	2,478	3,880	340	20,122	20,911	5,918
2035	2,323	3,977	359	20,390	21,234	6,008
2036	2,173	4,076	361	21,205	21,864	5,932
2037	2,021	4,178	371	21,697	22,178	6,079
2038	1,868	4,282	382	22,328	22,855	5,906
2039	1,717	4,389	392	22,685	23,379	5,804
2040	1,592	4,499	403	23,208	23,646	6,035
2041	1,496	4,612	414	23,717	24,242	5,996
2042	1,400	4,727	425	24,257	24,917	5,891
2043	1,303	4,845	436	24,881	25,658	5,809
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
NOM	74,377	91,498	7,290	430,817	482,556	141,367
NPV	16,624	15,191	1,101	65,937	73,340	25,513

AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential AC Tune-up and Maintenance

(1) YEAR	(2) AVOIDED TRANSMISSION CAP COST \$(000)	(3) AVOIDED TRANSMISSION O&M COST \$(000)	(4) TOTAL AVOIDED TRANSMISSION COST \$(000)	(5) AVOIDED DISTRIBUTION CAP COST \$(000)	(6) AVOIDED DISTRIBUTION O&M COST \$(000)	(7) TOTAL AVOIDED DISTRIBUTION COST \$(000)	(8) PROGRAM FUEL SAVINGS \$(000)	(9) PROGRAM OFF-PEAK PAYBACK \$(000)
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	140	0
2012	71	6	77	6	2	7	433	0
2013	150	19	169	13	3	16	731	0
2014	238	28	265	20	5	25	1,181	0
2015	335	37	372	28	8	35	1,670	0
2016	443	48	491	37	10	47	2,645	0
2017	543	61	604	47	13	60	3,639	0
2018	698	75	773	58	17	75	4,677	0
2019	848	77	925	71	21	91	5,827	0
2020	818	79	898	68	21	89	6,061	0
2021	789	81	871	66	22	87	6,301	0
2022	761	83	845	63	22	86	6,566	0
2023	734	85	820	61	23	84	6,844	0
2024	708	87	795	59	23	82	7,134	0
2025	682	90	771	57	24	81	7,437	0
2026	656	92	748	55	25	79	7,755	0
2027	630	94	725	52	25	78	8,083	0
2028	605	97	701	50	26	76	8,427	0
2029	579	99	678	48	26	75	8,787	0
2030	554	101	655	46	27	73	9,161	0
2031	528	104	632	44	28	72	9,551	0
2032	503	107	609	42	29	70	9,957	0
2033	478	109	587	40	29	69	10,381	0
2034	453	112	567	38	30	68	10,823	0
2035	428	115	547	36	31	67	11,283	0
2036	411	118	529	34	31	66	11,761	0
2037	392	121	513	33	32	65	12,257	0
2038	375	124	498	31	33	64	12,771	0
2039	359	127	486	30	34	64	13,303	0
2040	345	130	475	29	35	63	13,853	0
2041	332	133	465	28	36	63	14,421	0
2042	319	136	455	27	36	63	15,007	0
2043	306	140	445	25	37	63	15,611	0
2044	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0
NOM	16,097	2,915	19,012	1,341	764	2,105	203,530	0
NPV	4,329	589	4,918	361	149	509	46,330	0

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHEDDING PROGRAMS ONLY.

PARTICIPANT COSTS AND BENEFITS
PROGRAM (RESIDENTS) SELECTED REV 7/02
PROGRAM NAME: Residential AC Tune-up and Maintenance

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0
2011	208	0	157	0	566	1,237	0	0	1,237	(672)	(566)
2012	683	0	395	0	1,078	1,403	0	0	1,403	(325)	(818)
2013	1,235	0	437	0	1,692	1,590	0	0	1,590	102	(746)
2014	1,561	0	483	0	2,444	1,799	0	0	1,799	645	(304)
2015	2,785	0	643	0	3,428	2,506	0	0	2,506	922	229
2016	3,710	0	709	0	4,419	2,832	0	0	2,832	1,587	1,104
2017	4,793	0	781	0	5,574	3,194	0	0	3,194	2,378	2,307
2018	5,996	0	839	0	6,835	3,622	0	0	3,622	3,253	3,819
2019	6,798	0	277	0	7,075	1,269	0	0	1,269	5,779	6,294
2020	6,819	0	306	0	7,125	1,469	0	0	1,469	5,656	8,501
2021	6,947	0	583	0	7,530	2,035	0	0	2,035	4,355	10,249
2022	7,169	0	643	0	7,813	3,947	0	0	3,947	4,766	11,824
2023	7,287	0	578	0	7,865	2,764	0	0	2,764	5,201	13,443
2024	7,715	0	638	0	8,353	3,127	0	0	3,127	5,226	14,860
2025	7,992	0	783	0	8,695	3,534	0	0	3,534	5,161	16,182
2026	8,313	0	774	0	9,087	3,988	0	0	3,988	5,099	17,381
2027	8,747	0	721	0	9,468	3,749	0	0	3,749	5,719	18,617
2028	9,103	0	793	0	9,896	4,229	0	0	4,229	5,667	19,741
2029	9,516	0	337	0	9,847	2,622	0	0	2,622	7,245	21,156
2030	9,976	0	371	0	10,347	2,281	0	0	2,281	8,065	22,516
2031	10,430	0	523	0	10,953	3,073	0	0	3,073	7,881	23,727
2032	11,046	0	578	0	11,624	3,429	0	0	3,429	8,145	24,876
2033	12,024	0	698	0	12,672	3,323	0	0	3,323	8,737	26,088
2034	12,260	0	783	0	13,043	4,445	0	0	4,445	8,517	27,022
2035	12,742	0	643	0	13,385	4,107	0	0	4,107	9,278	28,054
2036	13,454	0	709	0	14,163	4,640	0	0	4,640	9,722	29,012
2037	14,384	0	781	0	15,165	5,037	0	0	5,037	9,928	29,927
2038	15,010	0	839	0	15,849	5,902	0	0	5,902	9,967	30,771
2039	15,698	0	277	0	15,975	2,128	0	0	2,128	13,847	31,848
2040	16,429	0	306	0	16,735	2,407	0	0	2,407	14,328	32,871
2041	17,298	0	583	0	17,881	4,416	0	0	4,416	13,464	33,754
2042	18,225	0	643	0	18,868	4,992	0	0	4,992	13,875	34,590
2043	19,215	0	578	0	19,793	4,529	0	0	4,529	15,263	35,434
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
NPW	306,310	0	19,211	0	325,521	105,662	0	0	105,662	219,859	35,434
NPV	54,980	0	5,285	0	60,265	24,931	0	0	24,931	35,434	

In Service of Gen Units
Discount Rate:
Benefit/Cost Ratio (Col(5) / Col(10))

2019
8.80 %
2.42

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential AC Tune-up and Maintenance

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	1,949	149	0	0	1	141	(909)	(767)
2011	0	334	357	153	0	1,519	433	34	0	2	519	(1,001)	(1,542)
2012	0	605	305	519	0	2,076	731	185	0	80	776	(1,100)	(2,325)
2013	0	685	437	954	0	2,749	1,101	291	0	97	1,489	(1,260)	(3,148)
2014	0	776	483	1,491	0	3,391	1,670	408	0	146	2,223	(1,678)	(4,956)
2015	0	1,141	643	2,117	0	4,819	2,645	539	0	216	3,400	(1,418)	(6,374)
2016	0	1,289	709	2,819	0	5,879	3,639	685	0	298	4,621	(1,258)	(7,632)
2017	0	1,455	781	3,643	0	7,656	4,677	848	0	387	5,912	(1,744)	(9,376)
2018	0	1,640	859	4,557	0	8,183	11,694	1,016	0	213	12,923	6,755	(2,621)
2019	0	725	277	5,166	0	6,308	11,514	987	0	135	12,636	6,328	(781)
2020	0	820	386	5,182	0	7,181	11,334	939	0	138	12,628	5,446	1,220
2021	0	1,313	583	5,925	0	7,181	11,334	939	0	139	12,837	5,272	2,943
2022	0	1,472	643	5,449	0	7,564	11,767	939	0	131	12,873	5,397	4,602
2023	0	1,264	578	5,614	0	7,476	11,838	904	0	129	13,134	5,180	6,046
2024	0	1,453	638	5,863	0	7,954	12,128	877	0	119	13,232	4,838	7,284
2025	0	1,642	703	6,074	0	8,419	12,280	832	0	105	13,227	4,282	8,201
2026	0	1,642	703	6,318	0	8,945	12,297	827	0	105	13,289	4,258	9,211
2027	0	1,823	774	6,648	0	9,041	12,406	802	0	91	13,399	3,881	9,964
2028	0	1,972	721	6,918	0	9,599	12,525	777	0	96	13,400	4,797	10,822
2029	0	1,887	793	6,918	0	9,693	12,555	753	0	92	13,478	4,292	11,533
2030	0	1,128	337	7,228	0	9,226	12,678	728	0	75	13,478	4,292	12,108
2031	0	1,273	371	7,581	0	9,948	12,860	704	0	83	13,649	3,740	12,528
2032	0	1,458	523	7,927	0	10,623	12,842	680	0	78	13,600	2,977	12,798
2033	0	1,670	578	8,395	0	11,649	13,093	656	0	(14)	13,735	2,085	12,986
2034	0	1,866	638	8,146	0	12,127	13,119	634	0	(49)	13,704	1,577	13,215
2035	0	2,107	703	8,884	0	12,186	13,736	634	0	(61)	14,289	2,052	13,334
2036	0	1,869	643	9,894	0	13,198	14,070	595	0	(99)	14,586	1,387	13,423
2037	0	2,112	781	10,377	0	14,097	14,344	578	0	(91)	14,831	734	13,423
2038	0	2,385	859	11,408	0	14,954	14,515	562	0	(104)	15,019	1,618	13,549
2039	0	2,688	859	11,839	0	15,285	14,596	540	0	(130)	15,085	1,250	13,608
2040	0	1,188	277	12,486	0	14,135	15,002	539	0	(130)	15,593	(272)	13,608
2041	0	1,343	306	13,144	0	15,865	15,236	528	0	(171)	15,593	(914)	13,865
2042	0	2,135	583	13,144	0	16,507	15,441	528	0	34	16,957	(328)	13,547
2043	0	2,413	643	13,851	0	17,286	16,192	598	0	257	17,286	0	13,547
2044	0	2,105	578	14,603	0	17,086	16,192	598	0	0	17,086	0	13,547
2045	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2046	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2047	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2048	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2049	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2050	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2051	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2052	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2053	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2054	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2055	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2056	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2057	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2058	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2059	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2060	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2061	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2062	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2063	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2064	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2065	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2066	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2067	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2068	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2069	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2070	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2071	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2072	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2073	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2074	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2075	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2076	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2077	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2078	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2079	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2080	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2081	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2082	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2083	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2084	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2085	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2086	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2087	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2088	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2089	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2090	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2091	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2092	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2093	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2094	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2095	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2096	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2097	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2098	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2099	0	0	0	0	0	0	0	0	0	0	0	0	13,547
2100	0	0	0	0	0	0	0	0	0	0	0	0	13,547
NOM	0	49,937	19,211	232,796	0	301,944	345,894	21,117	0	2,258	338,671	66,707	
NPV	0	11,602	5,585	41,785	0	58,772	65,842	5,427	0	1,049	72,319	13,547	

Discount Rate 8.29 %
Benefit/Cost Ratio (Col(12) / Col(7)) : 1.25

RESIDENTIAL REFRIGERATOR REPLACEMENT

INPUT DATA - PART 1 CONTINUED
PROGRAM/METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Refrigerator Replacement

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.03 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	0.04 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KW REDUCTION PER CUSTOMER	107.41 KWH
(5) KW LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KW INCREASE AT METER	0.80 KWH

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7738
(5) K FACTOR FOR T & D	1.6324

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* (8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
* (9) SUPPLY COSTS ESCALATION RATE	*** %**
^ (10) UTILITY DISCOUNT RATE	8.89 %
^ (11) UTILITY ATUDC RATE	8.48 %
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
^ (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2000
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST. COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS\$/KW
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (10-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$ 23 CENTS PER KW-HR** (10-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS\$/KW
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* INPUT DATA - PART I CONTINUED
PROGRAM/METHOD SELECTED: REV REQ
PROGRAM NAME: Residential Refrigerator Replacement

(1) YEAR	(2) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(3) UTILITY INCENTIVES \$(000)	(4) OTHER UTILITY COSTS \$(000)	(5) TOTAL UTILITY PROGRAM COSTS \$(000)	(6) ENERGY CHARGE SAVINGS LOSSES \$(000)	(7) DEMAND CHARGE REVENUE LOSSES \$(000)	(8) PARTICIPANT EQUIPMENT COSTS \$(000)	(9) PARTICIPANT GAIN COSTS \$(000)	(10) OTHER PARTICIPANT COSTS \$(000)	(11) TOTAL PARTICIPANT COSTS \$(000)
2009	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0
2011	897	1,570	0	2,467	116	0	2,125	0	0	2,125
2012	1,263	2,157	0	3,420	413	0	2,995	0	0	2,995
2013	1,723	2,872	0	4,595	845	0	4,083	0	0	4,083
2014	2,267	3,685	0	5,952	1,466	0	5,372	0	0	5,372
2015	1,806	2,547	0	4,353	2,104	0	3,805	0	0	3,805
2016	0	0	0	0	2,415	0	0	0	0	2,415
2017	0	0	0	0	2,583	0	0	0	0	2,583
2018	0	0	0	0	2,572	0	0	0	0	2,572
2019	0	0	0	0	2,667	0	0	0	0	2,667
2020	0	0	0	0	2,673	0	0	0	0	2,673
2021	0	0	0	0	2,733	0	0	0	0	2,733
2022	0	0	0	0	2,813	0	0	0	0	2,813
2023	0	0	0	0	2,898	0	0	0	0	2,898
2024	0	0	0	0	3,026	0	0	0	0	3,026
2025	1,267	1,570	0	2,837	3,135	0	3,083	0	0	3,083
2026	1,784	2,157	0	3,941	3,261	0	4,229	0	0	4,229
2027	2,435	2,872	0	5,306	3,432	0	5,779	0	0	5,779
2028	3,203	3,685	0	6,888	3,571	0	7,590	0	0	7,590
2029	2,269	2,547	0	4,816	3,731	0	5,377	0	0	5,377
2030	0	0	0	0	3,513	0	0	0	0	3,513
2031	0	0	0	0	4,892	0	0	0	0	4,892
2032	0	0	0	0	4,333	0	0	0	0	4,333
2033	0	0	0	0	4,721	0	0	0	0	4,721
2034	0	0	0	0	4,809	0	0	0	0	4,809
2035	0	0	0	0	4,999	0	0	0	0	4,999
2036	0	0	0	0	5,256	0	0	0	0	5,256
2037	0	0	0	0	5,613	0	0	0	0	5,613
2038	0	0	0	0	5,888	0	0	0	0	5,888
2039	1,790	1,570	0	3,360	6,138	0	4,343	0	0	4,343
2040	2,521	2,157	0	4,678	6,445	0	5,975	0	0	5,975
2041	3,440	2,872	0	6,312	6,786	0	8,153	0	0	8,153
2042	4,326	3,685	0	8,011	7,149	0	10,725	0	0	10,725
2043	3,206	2,547	0	5,753	7,528	0	7,528	0	0	7,528
2044	0	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0
NOM	34,197	38,493	0	72,690	134,500	0	81,839	0	0	81,839
NPV	8,732	12,526	0	21,254	23,967	0	20,660	0	0	20,660

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF X-FACTOR
 PROGRAM/ENRCD SELECTED REV. REQ
 PROGRAM/NAME: Residential Refrigerator Replacement

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
YEAR	REG-YEAR RATE BASE \$ (000)	DEBT \$ (000)	PREFERRED STOCK \$ (000)	COMMON EQUITY \$ (000)	INCOME TAXES \$ (000)	PROPERTY TAX \$ (000)	PROPERTY INSURANCE \$ (000)	DEPRECIATION \$ (000)	DEPRECIATION TAXES \$ (000)	TOTAL FIXED CHARGES \$ (000)	PRESENT WORTH \$ (000)	CUMULATIVE PW FIXED CHARGES \$ (000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$ (000)
2019	7,863	244	0	549	302	133	47	307	1	1,642	1,642	1,642	7,670
2020	7,557	235	0	327	249	127	48	307	100	1,598	1,483	3,105	7,862
2021	7,150	222	0	499	247	121	49	307	85	1,539	1,299	4,395	8,058
2022	6,738	210	0	472	244	116	50	307	71	1,469	1,128	5,533	8,260
2023	6,341	198	0	443	241	110	52	307	57	1,410	1,008	6,536	8,466
2024	6,017	187	0	420	237	105	53	307	45	1,353	894	7,429	8,678
2025	5,666	176	0	395	233	99	54	307	33	1,298	779	8,199	8,893
2026	5,326	165	0	372	229	94	56	307	23	1,245	686	8,885	9,117
2027	4,996	155	0	349	216	88	57	307	14	1,193	604	9,489	9,345
2028	4,668	145	0	326	202	83	58	307	7	1,141	530	10,019	9,579
2029	4,340	135	0	303	187	77	60	307	1	1,089	465	10,485	9,818
2030	4,012	125	0	280	173	72	61	307	1	1,038	407	10,892	10,064
2031	3,685	114	0	257	158	66	63	307	1	987	355	11,247	10,315
2032	3,357	104	0	234	144	61	64	307	1	936	309	11,566	10,573
2033	3,029	94	0	211	130	55	66	307	1	884	269	11,825	10,838
2034	2,701	84	0	188	115	50	68	307	1	833	232	12,037	11,109
2035	2,373	74	0	165	101	44	69	307	1	782	200	12,257	11,386
2036	2,045	64	0	143	87	39	71	307	1	731	172	12,429	11,671
2037	1,717	53	0	120	72	33	73	307	1	679	147	12,576	11,963
2038	1,389	43	0	97	58	28	75	307	1	628	125	12,701	12,262
2039	1,062	33	0	74	108	22	77	307	(43)	577	105	12,806	12,568
2040	798	23	0	56	160	17	79	307	(107)	535	90	12,895	12,882
2041	598	19	0	42	152	11	81	307	(107)	503	77	12,973	13,205
2042	399	12	0	28	143	6	83	307	(107)	471	66	13,039	13,535
2043	199	6	0	14	134	(9)	85	307	(107)	438	57	13,096	13,873

IN SERVICE COST (\$000)	7,670
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
SPEC. TAX RATE	38.57%
DISCOUNT RATE	8.9%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

SOURCE	WEIGHT	COST
DEBT	49%	7.03%
PS	0%	0.06%
CS	50%	12.50%

X-FACTOR = CFWEC / IN-SVC COST = 1.79738

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV REQ
 PROGRAM NAME: Residential Refrigerator Replacement

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS LIFE	(10)*(11)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(12)+(13)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	280	280	307	278	278	278	1	716	0	0	0	7	(294)
2020	7.22%	338	818	307	616	278	556	100	716	0	0	0	106	(94)
2021	6.68%	498	1,316	307	920	278	834	85	716	0	0	0	85	(9)
2022	6.18%	461	1,777	307	1,227	278	1,113	71	716	0	0	0	71	(2)
2023	5.71%	426	2,203	307	1,554	278	1,391	57	716	0	0	0	57	119
2024	5.29%	394	2,597	307	1,941	278	1,669	45	716	0	0	0	45	164
2025	4.89%	365	2,962	307	2,298	278	1,947	33	716	0	0	0	33	197
2026	4.52%	337	3,299	307	2,654	278	2,225	23	716	0	0	0	23	220
2027	4.16%	333	3,632	307	2,961	278	2,503	21	716	0	0	0	21	241
2028	4.46%	333	3,965	307	3,268	278	2,782	21	716	0	0	0	21	262
2029	4.46%	333	4,298	307	3,575	278	3,060	21	716	0	0	0	21	283
2030	4.46%	333	4,630	307	3,882	278	3,338	21	716	0	0	0	21	304
2031	4.46%	333	4,963	307	4,189	278	3,616	21	716	0	0	0	21	325
2032	4.46%	333	5,296	307	4,495	278	3,894	21	716	0	0	0	21	346
2033	4.46%	333	5,629	307	4,802	278	4,172	21	716	0	0	0	21	367
2034	4.46%	333	5,961	307	5,109	278	4,451	21	716	0	0	0	21	388
2035	4.46%	333	6,294	307	5,416	278	4,729	21	716	0	0	0	21	409
2036	4.46%	333	6,627	307	5,722	278	5,007	21	716	0	0	0	21	430
2037	4.46%	333	6,960	307	6,029	278	5,285	21	716	0	0	0	21	451
2038	4.46%	333	7,293	307	6,336	278	5,563	21	716	0	0	0	21	472
2039	2.23%	166	7,459	307	6,443	278	5,841	(45)	716	0	0	0	21	493
2040	0.00%	0	7,459	307	6,750	278	6,120	(107)	716	0	0	0	(107)	322
2041	0.00%	0	7,459	307	7,056	278	6,398	(107)	716	0	0	0	(107)	215
2042	0.00%	0	7,459	307	7,363	278	6,676	(107)	716	0	0	0	(107)	107
2043	0.00%	0	7,459	307	7,670	278	6,954	(107)	716	0	0	0	(107)	0

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(107)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	716
BOOK DEPR RATE - 1/USEFUL LIFE	4.89%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Refrigerator Replacement

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	380	1	7,363	307	(134)	7,863	7,537	7,711
2020	7.25%	538	100	7,856	614	(94)	7,857	7,130	7,354
2021	6.88%	498	85	8,750	928	(9)	7,150	6,738	6,954
2022	6.18%	461	71	6,443	1,227	82	6,738	6,381	6,570
2023	5.71%	426	57	6,136	1,534	119	6,381	6,017	6,199
2024	5.29%	394	45	5,829	1,841	164	6,017	5,606	5,842
2025	4.89%	365	33	5,522	2,148	197	5,646	5,226	5,436
2026	4.52%	337	23	5,216	2,454	220	5,326	4,996	5,161
2027	4.18%	303	21	4,909	2,761	241	4,996	4,668	4,832
2028	4.46%	333	21	4,602	3,068	262	4,668	4,340	4,504
2029	4.46%	333	21	4,295	3,375	283	4,340	4,012	4,176
2030	4.46%	333	21	3,988	3,682	304	4,012	3,685	3,849
2031	4.46%	333	21	3,682	3,988	325	3,685	3,357	3,521
2032	4.46%	333	21	3,375	4,295	346	3,357	3,029	3,193
2033	4.46%	333	21	3,068	4,602	367	3,029	2,701	2,865
2034	4.46%	333	21	2,761	4,909	388	2,701	2,373	2,537
2035	4.46%	333	21	2,454	5,216	409	2,373	2,045	2,209
2036	4.46%	333	21	2,148	5,522	430	2,045	1,717	1,881
2037	4.46%	333	21	1,841	5,829	451	1,717	1,389	1,553
2038	4.46%	333	21	1,534	6,136	472	1,389	1,062	1,226
2039	2.23%	166	(45)	1,227	6,443	493	1,062	736	890
2040	0.00%	0	(107)	920	6,750	522	736	598	698
2041	0.00%	0	(107)	614	7,056	551	598	389	489
2042	0.00%	0	(107)	307	7,363	577	389	199	289
2043	0.00%	0	(107)	(0)	7,670	0	199	0	100

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/KW)	(7) CUMULATIVE AVERAGE SPENDING (\$/KW)
2009	-10	1.00%	1.000	0.00%	0.00	0.00
2010	-9	1.00%	1.030	0.00%	0.00	0.00
2011	-8	1.00%	1.061	0.00%	0.00	0.00
2012	-7	1.00%	1.093	0.00%	0.00	0.00
2013	-6	1.00%	1.126	0.15%	1.34	4.62
2014	-5	1.00%	1.159	1.50%	13.99	9.24
2015	-4	1.00%	1.194	4.57%	39.61	37.03
2016	-3	1.00%	1.230	37.20%	331.87	222.77
2017	-2	1.00%	1.267	45.74%	420.27	398.84
2018	-1	1.00%	1.305	10.44%	58.73	838.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) CUMULATIVE SPENDING WITH AFUDC (\$/KW)	(3a)* DEBT AFUDC (\$/KW)	(3b)* CUMULATIVE DEBT AFUDC (\$/KW)	(4) YEARLY TOTAL AFUDC (\$/KW)	(4a)* CUMULATIVE TOTAL AFUDC (\$/KW)	(5)* CONSTRUCTION PERIOD INTEREST (\$/KW)	(6)* CUMULATIVE CRI (\$/KW)	(6a)* DEFERRED TAXES (\$/KW)	(6b)* CUMULATIVE DEFERRED TAXES (\$/KW)	(7) INCREMENTAL YEAR-END BOOK VALUE (\$/KW)	(8) CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	4.62	0.02	0.02	0.05	0.05	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.24	0.29	0.30	0.79	0.84	0.65	0.70	(0.16)	(0.15)	16.78	18.07
2015	-4	37.03	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	222.77	7.07	8.56	19.29	23.36	15.90	19.25	(3.41)	(4.15)	351.16	432.06
2017	-2	398.84	19.46	28.61	53.10	76.45	43.47	62.72	(9.26)	(13.39)	473.37	885.43
2018	-1	838.38	29.46	57.47	80.39	156.84	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,803
AFUDC RATE	3.48%

	57.47	156.84	127.50	(27.02)	1,064.61
CONSTRUCTION CASE	6,540	6,540	6,540		
EQUITY AFUDC	716				
DEBT AFUDC	414	414			
CRI			519		
TOTAL	7,670	6,954	7,059		

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV REQ
 PROGRAM NAME: Residential Refrigerator Replacement

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/kWh)	(5) AVOIDED MARGINAL FUEL COST (\$/kWh)	(6)* INCREASED MARGINAL FUEL COST (\$/kWh)	(7) REPLACEMENT FUEL COST (\$/kWh)	(8) PROGRAM/KW EFFECTIVENESS FACTOR	(9) PROGRAM/KW EFFECTIVENESS FACTOR
2809	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2910	0	0	6.41	16.31	6.41	0.00	1.00	1.00
2911	20,390	20,390	6.36	7.80	6.84	0.00	1.00	1.00
2912	48,404	48,404	6.43	7.77	6.38	0.00	1.00	1.00
2913	81,696	81,696	7.06	7.94	7.38	0.00	1.00	1.00
2914	133,538	133,538	7.33	8.28	7.80	0.00	1.00	1.00
2915	166,636	166,636	8.11	9.45	8.45	0.00	1.00	1.00
2916	166,636	166,636	9.00	10.60	9.54	0.00	1.00	1.00
2917	166,636	166,636	9.75	11.58	10.34	0.00	1.00	1.00
2918	166,636	166,636	10.52	12.42	11.15	0.00	1.00	1.00
2919	166,636	166,636	11.50	13.91	12.32	10.41	1.00	1.00
2920	166,636	166,636	12.08	14.59	12.95	10.30	1.00	1.00
2921	166,636	166,636	12.57	15.14	13.47	10.74	1.00	1.00
2922	166,636	166,636	13.06	15.36	13.94	10.81	1.00	1.00
2923	166,636	166,636	13.29	15.66	14.23	10.80	1.00	1.00
2924	166,636	166,636	13.95	16.25	14.81	10.84	1.00	1.00
2925	166,636	166,636	14.40	16.69	15.26	10.96	1.00	1.00
2926	166,636	166,636	14.70	16.87	15.52	11.03	1.00	1.00
2927	166,636	166,636	15.13	17.12	15.90	11.17	1.00	1.00
2928	166,636	166,636	15.60	17.50	16.35	11.26	1.00	1.00
2929	166,636	166,636	16.02	17.67	16.70	11.41	1.00	1.00
2930	166,636	166,636	16.52	18.13	17.13	11.59	1.00	1.00
2931	166,636	166,636	17.08	18.72	17.74	11.80	1.00	1.00
2932	166,636	166,636	17.50	18.78	18.05	11.88	1.00	1.00
2933	166,636	166,636	18.07	19.48	18.72	12.10	1.00	1.00
2934	166,636	166,636	18.75	19.53	19.02	12.14	1.00	1.00
2935	166,636	166,636	19.57	20.39	19.94	12.29	1.00	1.00
2936	166,636	166,636	20.40	21.33	20.75	12.55	1.00	1.00
2937	166,636	166,636	21.11	21.14	21.43	12.70	1.00	1.00
2938	166,636	166,636	22.02	22.06	22.34	13.04	1.00	1.00
2939	166,636	166,636	22.78	23.75	23.08	13.32	1.00	1.00
2940	166,636	166,636	23.59	24.42	23.86	13.44	1.00	1.00
2941	166,636	166,636	24.54	25.36	24.79	13.75	1.00	1.00
2942	166,636	166,636	25.30	26.30	25.73	14.10	1.00	1.00
2943	166,636	166,636	26.74	27.84	27.07	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

AVOIDED GENERATING EMISSION IMPACT
 PROGRAM/PERIOD SELECTED: REV_1RQ
 PROGRAM/NAME: Residential/Retiree/Generator Replacement

YEAR	(2) AVOIDED GEN UNIT EMISSION BENEFIT \$(000)	(3) REPLACEMENT EMISSION COST \$(000)	(4) PROGRAM EMISSION BENEFIT \$(000)	(5) OFF-PEAK EMISSION PAYBACK COST \$(000)	(6) NET EMISSION BENEFIT \$(000)
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	4	0	4
2012	0	0	1	0	1
2013	0	0	32	0	32
2014	0	0	94	0	94
2015	0	0	143	0	143
2016	0	0	179	0	179
2017	0	0	196	0	196
2018	0	0	213	0	213
2019	274	339	232	0	148
2020	418	541	233	0	130
2021	480	596	271	0	135
2022	537	635	304	0	147
2023	593	766	324	0	151
2024	683	880	362	0	164
2025	788	1,013	398	0	173
2026	874	1,117	420	0	177
2027	988	1,261	438	0	185
2028	1,084	1,381	499	0	202
2029	1,240	1,574	555	0	222
2030	1,375	1,744	600	0	231
2031	1,494	1,894	632	0	233
2032	1,645	2,081	707	0	271
2033	1,917	2,423	766	0	280
2034	2,122	2,680	830	0	271
2035	2,304	2,912	899	0	291
2036	2,516	3,173	974	0	311
2037	2,727	3,444	1,052	0	335
2038	2,956	3,733	1,136	0	359
2039	3,192	4,036	1,225	0	380
2040	3,449	4,361	1,320	0	408
2041	3,717	4,698	1,419	0	437
2042	3,717	4,698	1,525	0	543
2043	3,717	4,698	1,640	0	638
2044	0	0	0	0	0
2045	0	0	0	0	0
2046	0	0	0	0	0
2047	0	0	0	0	0
2048	0	0	0	0	0
2049	0	0	0	0	0
2050	0	0	0	0	0
2051	0	0	0	0	0
2052	0	0	0	0	0
2053	0	0	0	0	0
2054	0	0	0	0	0
2055	0	0	0	0	0
2056	0	0	0	0	0
2057	0	0	0	0	0
2058	0	0	0	0	0
2059	0	0	0	0	0
2060	0	0	0	0	0
2061	0	0	0	0	0
2062	0	0	0	0	0
2063	0	0	0	0	0
2064	0	0	0	0	0
2065	0	0	0	0	0
2066	0	0	0	0	0
2067	0	0	0	0	0
2068	0	0	0	0	0
2069	0	0	0	0	0
2070	0	0	0	0	0
2071	0	0	0	0	0
2072	0	0	0	0	0
2073	0	0	0	0	0
2074	0	0	0	0	0
2075	0	0	0	0	0
2076	0	0	0	0	0
2077	0	0	0	0	0
2078	0	0	0	0	0
2079	0	0	0	0	0
2080	0	0	0	0	0
2081	0	0	0	0	0
2082	0	0	0	0	0
2083	0	0	0	0	0
2084	0	0	0	0	0
2085	0	0	0	0	0
2086	0	0	0	0	0
2087	0	0	0	0	0
2088	0	0	0	0	0
2089	0	0	0	0	0
2090	0	0	0	0	0
2091	0	0	0	0	0
2092	0	0	0	0	0
2093	0	0	0	0	0
2094	0	0	0	0	0
2095	0	0	0	0	0
2096	0	0	0	0	0
2097	0	0	0	0	0
2098	0	0	0	0	0
2099	0	0	0	0	0
2100	0	0	0	0	0
NCM	44,733	56,763	19,699	0	7,718
NPV	3,422	6,899	2,930	0	1,433

RATE IMPACT TEST
PROGRAM(METHOD) SELECTED: REV_REQ
PROGRAM NAME: Residential Refrigerator Replacement

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$('000)	UTILITY PROGRAM COSTS \$('000)	INCENTIVES \$('000)	REVENUE LOSSES \$('000)	OTHER COSTS \$('000)	TOTAL COSTS \$('000)	AVOIDED GEN UNIT & FUEL BENEFITS \$('000)	AVOIDED T&D BENEFITS \$('000)	REVENUE GAINS \$('000)	OTHER BENEFITS \$('000)	TOTAL BENEFITS \$('000)	NET BENEFITS \$('000)	CUMULATIVE DISCOUNTED NET BENEFITS \$('000)
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	297	1,570	116	0	2,583	90	0	0	0	91	(2,492)	(2,102)
2012	0	1,263	2,157	413	0	3,833	303	40	1	344	344	(3,489)	(4,804)
2013	0	1,723	2,572	845	0	5,440	332	101	0	52	745	(4,695)	(5,144)
2014	0	2,267	3,685	1,466	0	7,418	1,204	178	0	94	1,376	(5,142)	(7,156)
2015	0	1,696	2,547	2,104	0	6,296	1,506	274	0	143	1,723	(4,334)	(8,756)
2016	0	0	0	2,415	0	2,415	1,887	335	0	179	2,501	86	(8,709)
2017	0	0	0	2,503	0	2,503	1,176	325	0	196	2,698	195	(8,410)
2018	0	0	0	2,572	0	2,572	2,331	316	0	213	2,861	288	(8,476)
2019	0	0	0	2,667	0	2,667	4,598	307	0	148	5,053	2,385	(13,458)
2020	0	0	0	2,675	0	2,675	4,571	296	0	130	4,999	2,324	(12,547)
2021	0	0	0	2,733	0	2,733	4,615	289	0	135	5,039	2,306	(11,717)
2022	0	0	0	2,815	0	2,815	4,676	281	0	147	5,104	2,291	(10,959)
2023	0	0	0	2,898	0	2,898	4,712	273	0	151	5,136	2,239	(10,280)
2024	0	0	0	3,026	0	3,026	4,840	265	0	164	5,269	2,263	(9,654)
2025	0	1,267	1,570	3,135	0	5,972	4,913	257	0	173	5,344	(829)	(9,815)
2026	0	1,784	2,157	3,261	0	7,282	4,950	250	0	177	5,376	(1,826)	(10,244)
2027	0	2,635	2,872	3,422	0	8,738	5,001	242	0	185	5,468	(3,510)	(10,959)
2028	0	3,203	3,685	3,571	0	10,459	5,056	234	0	202	5,492	(4,968)	(11,945)
2029	0	2,269	2,547	3,731	0	8,547	5,119	226	0	222	5,567	(2,380)	(12,488)
2030	0	0	0	3,913	0	3,913	5,196	218	0	231	5,646	1,733	(12,198)
2031	0	0	0	4,092	0	4,092	5,281	211	0	253	5,734	1,603	(11,942)
2032	0	0	0	4,333	0	4,333	5,340	203	0	271	5,814	1,481	(11,733)
2033	0	0	0	4,721	0	4,721	5,456	196	0	289	5,911	1,191	(11,579)
2034	0	0	0	4,809	0	4,809	5,530	189	0	271	5,591	1,182	(11,438)
2035	0	0	0	4,929	0	4,929	5,744	184	0	291	6,239	1,261	(11,303)
2036	0	0	0	5,236	0	5,236	5,919	180	0	311	6,489	1,053	(11,197)
2037	0	0	0	5,643	0	5,643	6,065	176	0	335	6,576	833	(11,111)
2038	0	0	0	5,888	0	5,888	6,173	173	0	359	6,704	816	(11,042)
2039	0	1,790	1,570	6,158	0	9,518	6,257	169	0	390	6,807	(9,713)	(11,253)
2040	0	2,521	2,157	6,445	0	11,123	6,454	166	0	408	7,028	(6,095)	(11,545)
2041	0	3,440	2,872	6,786	0	13,097	6,601	163	0	437	7,261	(5,896)	(11,932)
2042	0	4,326	3,685	7,149	0	15,360	6,733	160	0	513	7,436	(7,925)	(12,409)
2043	0	5,205	2,547	7,538	0	17,291	7,031	157	0	628	7,844	(5,445)	(12,710)
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
NOM	0	34,197	38,493	124,393	0	196,893	144,332	7,837	0	7,718	161,607	(35,286)	
NPV	0	3,713	12,326	23,967	0	45,211	29,033	3,015	0	1,453	32,501	(12,710)	

Discount Rate: 3.89 %
 Benefit/Cost Ratio (Col(12) / Col(13)): 0.72

BUSINESS HEATING, VENTILATING AND AIR CONDITIONING

INPUT DATA -- PART I CONTINUED
PROGRAM METHOD SELECTED: KEV_REQ
PROGRAM NAME: Business Heating, Ventilating and Air-Conditioning

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	1.05 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.40 KW
(3) KW LINE LOSS PERCENTAGE	3.66 %
(4) GENERATOR KW REDUCTION PER CUSTOMER	4,804.61 KVA ****
(5) KW LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIFLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	452.43 KVA ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7078
(5) K FACTOR FOR T & D	1.6224

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* INCREASED SUPPLY COSTS	*** \$/CUST/YR
* SUPPLY COSTS ESCALATION RATES	*** %**
* (10) UTILITY DISCOUNT RATE	2.89 %
* (11) UTILITY AFDG RATE	3.48 %
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.32 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KWYR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KVA
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0.6 ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.23 CENTS PER KWHR** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW&O
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2
 **** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (9) IS ANNUAL KWHR/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWHR/CUST THAT IS PAID BACK DURING OFF-PEAK.

**CALCULATION OF X-FACTOR
PROGRAM METHOD SELECTED RSV_RBQ
PROGRAM NAME: Business Heating, Ventilating and Air-Conditioning**

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
YEAR	REG-YEAR RAISE BASE \$(000)	DEBT \$(000)	DEFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL EDGED CHARGES \$(000)	PRESENT WORTH EDGED CHARGES \$(000)	CUMULATIVE PWEDGED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	235,130	7,304	0	16,410	10,825	3,963	1,889	9,173	18	49,092	49,092	49,092	229,320
2020	228,540	7,019	0	15,768	7,438	3,798	1,434	9,173	1,602	47,622	43,344	92,236	235,653
2021	213,774	6,641	0	14,919	7,371	3,632	1,470	9,173	2,536	45,341	38,379	131,415	248,929
2022	202,066	6,277	0	14,102	7,285	3,467	1,506	9,173	2,168	43,319	34,019	165,434	246,923
2023	190,785	5,927	0	13,514	7,193	3,302	1,544	9,173	1,706	42,159	29,991	194,423	233,126
2024	179,306	5,589	0	12,835	7,084	3,137	1,583	9,173	1,238	40,439	26,432	221,438	229,456
2025	169,395	5,262	0	11,822	6,965	2,972	1,622	9,173	997	38,812	23,287	245,345	265,941
2026	159,225	4,946	0	11,113	6,834	2,807	1,663	9,173	682	37,217	20,507	265,632	272,589
2027	149,371	4,640	0	10,424	6,654	2,642	1,704	9,173	630	35,687	18,650	283,782	279,404
2028	139,568	4,336	0	9,740	6,025	2,477	1,747	9,173	629	34,127	15,960	299,562	286,380
2029	129,766	4,031	0	9,056	5,595	2,312	1,791	9,173	630	32,587	13,909	313,471	293,549
2030	119,963	3,727	0	8,372	5,166	2,146	1,835	9,173	629	31,048	12,178	325,641	300,888
2031	110,160	3,422	0	7,688	4,735	1,981	1,881	9,173	630	29,511	10,624	336,265	308,410
2032	100,357	3,118	0	7,004	4,307	1,816	1,928	9,173	629	27,975	9,249	345,514	316,120
2033	90,555	2,815	0	6,320	3,876	1,651	1,977	9,173	630	26,440	8,028	353,542	324,023
2034	80,752	2,509	0	5,636	3,447	1,486	2,026	9,173	629	24,906	6,945	360,487	332,124
2035	70,950	2,204	0	4,951	3,017	1,321	2,077	9,173	630	23,373	5,986	366,472	340,427
2036	61,147	1,899	0	4,267	2,588	1,156	2,129	9,173	629	21,841	5,137	371,609	348,938
2037	51,345	1,595	0	3,583	2,158	991	2,182	9,173	630	20,311	4,387	375,996	357,661
2038	41,542	1,290	0	2,899	1,729	826	2,236	9,173	629	18,778	3,726	379,722	366,603
2039	31,740	986	0	2,215	1,218	660	2,292	9,173	(1,283)	17,235	3,143	382,865	375,768
2040	22,836	741	0	1,665	4,791	495	2,340	9,173	(3,208)	16,097	2,678	385,545	385,162
2041	17,891	556	0	1,249	4,530	330	2,408	9,173	(3,208)	15,037	2,311	387,834	394,791
2042	11,927	370	0	832	4,269	165	2,468	9,173	(3,208)	14,479	1,965	389,829	404,661
2043	5,962	185	0	416	4,007	(0)	2,530	9,173	(3,208)	13,103	1,678	391,537	414,777

IN SERVICE COST (\$000)	229,320
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
DEPREC. TAX RATE	38.57%
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	7.03%
Y/S	0%	0.00%
CRS	56%	12.50%

X-FACTOR = CPW/C / IN-SVC COST = 1.7078

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAMMSIBSD SELECTED REV REQ
 PROGRAMNAME: Business Heating, Ventilating and Air-C

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(14)-(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (7)-(10)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	8,363	8,363	9,173	9,173	8,317	8,317	18	21,405	0	0	0	18	(3,892)
2020	7.32%	16,098	24,461	9,173	18,346	8,317	16,633	3,602	21,405	0	0	0	3,002	(2,800)
2021	6.69%	14,890	39,351	9,173	27,518	8,317	24,950	2,536	21,405	0	0	0	2,536	(264)
2022	6.16%	13,781	53,132	9,173	36,691	8,317	33,267	2,108	21,405	0	0	0	2,108	1,944
2023	5.71%	12,740	65,872	9,173	45,864	8,317	41,543	1,706	21,405	0	0	0	1,706	3,650
2024	5.29%	11,786	77,658	9,173	55,027	8,317	49,900	1,338	21,405	0	0	0	1,338	4,988
2025	4.89%	10,900	88,558	9,173	64,210	8,317	58,216	997	21,405	0	0	0	997	5,985
2026	4.52%	10,084	98,642	9,173	73,382	8,317	66,533	682	21,405	0	0	0	682	6,667
2027	4.18%	9,350	108,593	9,173	82,555	8,317	74,850	430	21,405	0	0	0	430	7,107
2028	4.46%	9,348	118,541	9,173	91,728	8,317	83,166	429	21,405	0	0	0	429	7,536
2029	4.46%	9,350	128,491	9,173	100,901	8,317	91,483	430	21,405	0	0	0	430	8,457
2030	4.46%	9,348	138,439	9,173	110,074	8,317	99,799	429	21,405	0	0	0	429	9,086
2031	4.46%	9,350	148,389	9,173	119,246	8,317	108,116	430	21,405	0	0	0	430	9,716
2032	4.46%	9,348	158,337	9,173	128,419	8,317	116,433	429	21,405	0	0	0	429	10,345
2033	4.46%	9,350	168,288	9,173	137,592	8,317	124,749	430	21,405	0	0	0	430	10,976
2034	4.46%	9,348	178,236	9,173	146,765	8,317	133,065	429	21,405	0	0	0	429	11,605
2035	4.46%	9,350	188,186	9,173	155,938	8,317	141,382	430	21,405	0	0	0	430	12,235
2036	4.46%	9,348	198,134	9,173	165,110	8,317	149,699	429	21,405	0	0	0	429	12,865
2037	4.46%	9,350	208,085	9,173	174,283	8,317	158,016	430	21,405	0	0	0	430	13,495
2038	4.46%	9,348	218,033	9,173	183,456	8,317	166,332	429	21,405	0	0	0	429	14,126
2039	2.23%	4,975	223,008	9,173	192,629	8,317	174,649	(1,289)	21,405	0	0	0	(1,289)	13,835
2040	0.00%	0	223,008	9,173	201,802	8,317	182,965	(1,208)	21,405	0	0	0	(1,208)	13,627
2041	0.00%	0	223,008	9,173	210,974	8,317	191,282	(1,208)	21,405	0	0	0	(1,208)	13,419
2042	0.00%	0	223,008	9,173	220,147	8,317	199,599	(1,208)	21,405	0	0	0	(1,208)	13,211
2043	0.00%	0	223,008	9,173	229,320	8,317	207,915	(1,208)	21,405	0	0	0	(1,208)	13,003

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(5,819)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	21,405
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Heating, Ventilating and Air-Conditioning

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	8,348	18	220,347	9,173	(5,802)	225,139	225,949	220,544
2020	7.22%	16,098	3,002	210,574	18,346	(2,850)	225,949	213,774	219,822
2021	6.68%	14,894	2,536	201,802	27,518	(264)	213,774	202,066	207,920
2022	6.18%	13,781	2,108	192,629	36,691	1,844	202,066	190,785	196,425
2023	5.71%	12,740	1,706	183,456	45,864	3,350	190,785	179,906	183,345
2024	5.29%	11,786	1,338	174,283	55,037	4,888	179,906	169,295	174,659
2025	4.89%	10,900	997	165,110	64,210	6,455	169,295	159,225	164,310
2026	4.52%	10,084	681	155,938	73,382	8,067	159,225	149,371	154,298
2027	4.18%	9,350	430	146,765	82,555	9,717	149,371	139,568	144,469
2028	4.46%	9,348	629	137,592	91,728	7,826	139,568	129,766	134,667
2029	4.46%	9,350	630	128,419	100,901	8,457	129,766	119,963	124,864
2030	4.46%	9,348	629	119,246	110,074	9,086	119,963	110,160	115,062
2031	4.46%	9,350	630	110,074	119,246	9,716	110,160	100,357	105,260
2032	4.46%	9,348	629	100,901	128,419	10,345	100,357	90,553	95,456
2033	4.46%	9,350	630	91,728	137,592	10,976	90,553	80,752	85,654
2034	4.46%	9,348	629	82,555	146,765	11,605	80,752	70,950	75,851
2035	4.46%	9,350	630	73,382	155,938	12,235	70,950	61,147	66,049
2036	4.46%	9,348	629	64,210	165,110	12,865	61,147	51,345	56,246
2037	4.46%	9,350	630	55,037	174,283	13,495	51,345	41,542	46,444
2038	4.46%	9,348	629	45,864	183,456	14,124	41,542	31,740	36,641
2039	2.23%	4,575	(1,089)	36,691	192,629	12,835	31,740	23,856	27,799
2040	0.00%	0	(3,268)	27,518	201,802	9,627	23,856	17,891	20,874
2041	0.00%	0	(3,268)	18,346	210,974	6,419	17,891	11,927	14,909
2042	0.00%	0	(3,268)	9,173	220,147	3,211	11,927	5,962	8,944
2043	0.00%	0	(3,268)	(0)	229,320	3	5,962	-3	2,980

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/KW)	(7) CUMULATIVE AVERAGE SPENDING (\$/KW)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.19%	1.24	0.02
2014	-5	3.00%	1.159	1.09%	15.59	3.24
2015	-4	3.00%	1.194	4.57%	35.61	37.03
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	398.84
2018	-1	3.00%	1.305	18.44%	56.29	858.38

181.00% 907.77

YEAR	NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/KW)	(9)* DEBT AFUDC (\$/KW)	(10)* CUMULATIVE DEBT AFUDC (\$/KW)	(11) YEARLY TOTAL AFUDC (\$/KW)	(12)* CUMULATIVE TOTAL AFUDC (\$/KW)	(13)* CONSTRUCTION PERIOD INTEREST (\$/KW)	(14)* CUMULATIVE CFI (\$/KW)	(15)* DEFERRED TAXES (\$/KW)	(16)* CUMULATIVE DEFERRED TAXES (\$/KW)	(17) INCREMENTAL YEAR-END BOOK VALUE (\$/KW)	(18) CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.02	0.02	0.02	0.05	0.05	0.04	0.04	(0.61)	(0.61)	1.29	1.29
2014	-5	9.29	0.29	0.30	0.79	0.84	0.63	0.76	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.15	1.49	3.22	4.96	2.63	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.07	8.56	19.29	23.26	15.90	19.25	(3.41)	(4.13)	251.16	412.06
2017	-2	622.20	19.46	28.01	53.10	76.85	43.87	62.72	(9.26)	(13.39)	473.37	885.43
2018	-1	294.83	27.46	57.47	80.29	156.84	64.78	127.50	(15.63)	(27.02)	179.18	1,064.61

57.47 156.84 127.50 (27.02) 1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,339,835
AFUDC RATE	8.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAC BASIS
CONSTRUCTION CASH	194,337	194,337	194,337
EQUITY AFUDC	21,405		
DEBT AFUDC	12,379	12,379	
CFI			27,664
TOTAL	228,121	206,716	222,001

* Column not specified in workbook

INPUT DATA -- PART 2
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Business Heating, Ventilating and Air-Conditioning

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAMMSV EFFECTIVENESS FACTOR	PROGRAMMSQ EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	12,111	12,111	6.41	7.35	7.43	0.00	1.00	1.00
2011	30,434	30,434	6.35	7.19	7.26	0.00	1.00	1.00
2012	52,110	52,110	6.43	7.21	7.27	0.00	1.00	1.00
2013	78,628	78,628	7.04	7.58	7.62	0.00	1.00	1.00
2014	104,689	104,689	7.53	7.97	8.01	0.00	1.00	1.00
2015	126,376	126,376	8.11	8.63	8.69	0.00	1.00	1.00
2016	144,779	144,779	9.09	9.92	10.00	0.00	1.00	1.00
2017	149,464	149,464	9.75	10.78	10.87	0.00	1.00	1.00
2018	154,016	154,016	10.52	11.59	11.69	0.00	1.00	1.00
2019	154,016	154,016	11.50	12.37	13.00	18.41	1.00	1.00
2020	154,016	154,016	12.08	13.50	13.61	19.56	1.00	1.00
2021	154,016	154,016	12.57	14.06	14.18	20.74	1.00	1.00
2022	154,016	154,016	13.06	14.51	14.63	20.81	1.00	1.00
2023	154,016	154,016	13.56	14.72	14.83	20.80	1.00	1.00
2024	154,016	154,016	13.85	15.29	15.40	20.84	1.00	1.00
2025	154,016	154,016	14.40	15.75	15.85	20.96	1.00	1.00
2026	154,016	154,016	14.70	15.99	16.09	21.05	1.00	1.00
2027	154,016	154,016	15.13	16.34	16.42	21.17	1.00	1.00
2028	154,016	154,016	15.60	16.76	16.84	21.26	1.00	1.00
2029	154,016	154,016	16.02	17.06	17.33	21.41	1.00	1.00
2030	154,016	154,016	16.52	17.54	17.60	21.59	1.00	1.00
2031	154,016	154,016	17.08	18.11	18.17	21.80	1.00	1.00
2032	154,016	154,016	17.50	18.35	18.39	21.88	1.00	1.00
2033	154,016	154,016	18.27	19.02	19.06	22.10	1.00	1.00
2034	154,016	154,016	18.73	19.25	19.28	22.14	1.00	1.00
2035	154,016	154,016	19.57	20.22	20.26	22.29	1.00	1.00
2036	154,016	154,016	20.40	21.08	21.12	22.55	1.00	1.00
2037	154,016	154,016	21.11	21.74	21.78	22.70	1.00	1.00
2038	154,016	154,016	22.02	22.66	22.70	23.04	1.00	1.00
2039	154,016	154,016	22.78	23.38	23.42	23.22	1.00	1.00
2040	154,016	154,016	23.59	24.13	24.16	23.44	1.00	1.00
2041	154,016	154,016	24.54	25.06	25.09	23.75	1.00	1.00
2042	154,016	154,016	25.50	26.02	26.05	24.10	1.00	1.00
2043	154,016	154,016	26.74	27.40	27.45	24.60	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

AVOIDED GENERATING BENEFITS
PROGRAM(M)S/SECTOR SELECTED: KEY_REQ
PROGRAM NAME: Business Heating, Ventilation and Air-Conditioning

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED CHARG \$(000)	(4) AVOIDED GEN UNIT VARIABLE CHARG \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2009	0	0	0	0	0	0
2010	0	0	0	0	0	0
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	0	0	0
2019	49,092	26,927	1136	68,573	96,735	58,972
2020	47,632	27,600	1,638	101,001	123,073	54,818
2021	45,741	28,290	1714	105,412	128,551	52,607
2022	43,919	28,998	1821	111,568	134,619	52,286
2023	42,159	29,723	1921	117,296	137,975	53,025
2024	40,459	30,466	2026	123,507	143,048	53,819
2025	38,812	31,227	2128	130,292	150,839	53,718
2026	37,217	32,008	2231	141,497	158,947	54,086
2027	35,667	32,808	2465	149,332	165,754	54,519
2028	34,127	33,628	2538	159,296	169,325	54,569
2029	32,587	34,469	2637	149,731	173,777	55,688
2030	31,048	35,331	2790	167,230	180,725	55,674
2031	29,511	36,214	2858	176,676	184,092	55,257
2032	27,973	37,120	2970	174,706	187,782	56,988
2033	26,440	38,047	3068	194,622	205,338	56,840
2034	24,906	38,999	3420	202,377	210,206	59,494
2035	23,373	39,974	3514	206,982	213,650	60,392
2036	21,841	40,973	3633	213,163	219,782	59,829
2037	20,311	41,997	3738	218,688	222,943	61,107
2038	18,783	43,047	3841	223,447	229,744	59,374
2039	17,255	44,123	3940	228,042	235,019	58,340
2040	16,007	45,227	4049	233,293	237,985	60,871
2041	15,037	46,357	4158	238,413	243,638	60,278
2042	14,070	47,516	4272	243,842	249,478	59,221
2043	13,103	48,704	4400	250,114	256,920	59,402
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
NORM	747,071	915,774	73,278	4,330,761	4,849,304	1,421,078
NPV	167,118	132,706	13,965	661,803	737,946	256,444

TOTAL RESOURCE COST TEST
PROGRAM(METHOD SELECTED): KEY_REQ
PROGRAM NAME: Business Heating, Ventilating and Air-Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GENTILE BENEFITS \$(000)	AVOIDED T&M BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(100)
2009	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	894	31,920	0	32,814	0	0	2,027	9	2,035	(20,289)	(27,817)
2011	0	1,173	39,572	0	40,745	0	751	6,945	15	7,710	(33,036)	(58,680)
2012	0	1,441	50,600	0	52,041	0	1,900	15,618	33	17,551	(36,490)	(83,945)
2013	0	1,670	56,966	0	58,636	0	3,449	22,311	2,949	27,908	(30,328)	(105,873)
2014	0	1,783	58,738	0	60,521	0	3,489	32,339	3,139	40,788	(19,737)	(118,783)
2015	0	1,640	50,135	0	51,774	0	6,782	44,694	4,415	55,761	3,986	(114,291)
2016	0	1,483	40,669	0	42,152	0	8,023	60,545	5,793	74,434	32,876	(78,275)
2017	0	386	18,118	0	18,504	0	9,156	71,517	6,912	87,585	69,081	(63,317)
2018	0	387	18,336	0	18,723	0	9,249	79,228	7,789	96,266	77,583	(27,297)
2019	0	0	0	0	0	52,972	9,315	89,647	6,021	163,955	163,955	42,683
2020	0	0	0	0	0	54,818	9,047	95,395	5,535	165,406	165,406	104,735
2021	0	0	0	0	0	52,497	8,788	97,981	5,904	165,279	165,279	164,233
2022	0	0	0	0	0	52,586	8,536	100,878	6,506	168,206	168,206	221,846
2023	0	0	0	0	0	53,325	8,091	102,048	6,779	170,342	170,342	279,566
2024	0	0	0	0	0	53,819	8,049	105,934	7,408	175,240	175,240	322,432
2025	0	464	20,123	0	20,587	53,718	9,810	109,010	7,985	178,524	157,936	502,877
2026	0	723	30,889	0	31,612	54,085	7,572	110,541	8,282	180,480	148,868	597,889
2027	0	687	31,812	0	32,500	54,519	7,336	112,712	8,672	183,439	150,540	630,491
2028	0	746	34,785	0	35,531	54,264	7,100	115,894	8,630	186,447	152,917	660,628
2029	0	728	34,016	0	34,744	53,688	6,865	117,179	10,741	190,473	155,731	688,798
2030	0	1,234	50,153	0	51,387	53,674	6,630	120,347	11,569	194,021	147,634	512,662
2031	0	1,321	50,461	0	51,782	53,237	6,389	124,218	12,399	198,273	146,291	535,148
2032	0	1,389	62,570	0	64,458	52,838	6,177	128,488	13,372	202,024	127,566	554,532
2033	0	2,294	69,846	0	72,150	52,849	5,969	129,708	13,522	206,048	123,898	571,905
2034	0	2,100	57,737	0	59,837	59,494	5,780	130,801	14,256	210,431	150,534	589,621
2035	0	2,187	58,087	0	60,273	60,273	5,612	137,623	15,492	219,122	158,848	607,184
2036	0	1,988	42,330	0	44,318	59,829	5,466	143,446	16,629	225,149	181,011	625,254
2037	0	287	11,983	0	12,270	61,107	5,340	147,773	17,942	232,161	219,291	645,626
2038	0	281	11,993	0	12,274	62,374	5,229	154,004	19,307	237,914	225,640	664,730
2039	0	0	0	0	0	62,942	5,126	158,789	20,679	242,936	242,936	683,620
2040	0	673	29,144	0	29,817	63,871	5,027	163,673	22,240	251,813	221,896	699,473
2041	0	1,048	44,737	0	45,784	62,278	4,931	169,912	23,880	259,017	213,223	713,456
2042	0	596	46,074	0	47,689	62,221	4,836	176,302	27,887	268,286	221,217	728,780
2043	0	1,080	50,379	0	51,459	62,022	4,741	184,948	29,186	282,378	230,919	739,553
2044	0	0	0	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0	0
NPV	0	31,586	1,101,411	0	1,132,997	1,421,078	210,396	3,536,944	373,151	5,363,468	4,430,471	
NPV	0	10,059	346,885	0	356,944	256,464	59,768	716,784	63,481	1,046,497	739,553	

Discount Rate: 8.89 %
Benefit/Cost Ratio (Col(12) / Col(6)): 3.07

BUSINESS LIGHTING

INPUT DATA - PART 1 CONTINUED
PROGRAM METHOD SELECTED: KBY_REQ
PROGRAM NAME: Business Lighting

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.93 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.07 KW
(3) KW LINE LOSS PERCENTAGE	2.56 %
(4) GENERATOR KW REDUCTION PER CUSTOMER	3,816.40 KWH
(5) KW LINE LOSS PERCENTAGE	6.98 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KWH INCREASE AT METER	0.00 KWH

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7978
(5) K FACTOR FOR T & D	1.6254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* (8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
* (9) SUPPLY COSTS ESCALATION RATES	*** %**
^ (10) UTILITY DISCOUNT RATE	2.39 %
^ (11) UTILITY AFUDC RATE	2.48 %
* (12) UTILITY NON RECURRING REBATE INCENTIVE	*** \$/CUST
* (13) UTILITY RECURRING REBATE INCENTIVE	*** \$/CUST
^ (14) UTILITY REBATE INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2015, 2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.92 \$/KW
(6) BASE YEAR DISTRIBUTION COST	28.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.50 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O & M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/CWHR
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.23 CENTS PER KWHR** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KWH
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/CD
(4) DEMAND CHARGE ESCALATION RATE	*** %

CALCULATION OF GENK-FACTOR
PROGRAMMED SELECTED REV_REQ
PROGRAM NAME: Business Lighting

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REG-YEAR RAISE/BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT FIXED CHARGES \$(000)	CUMULATIVE PW/FIXED CHARGES \$(000)	REPLACEMENT COST/BASE FOR PROPERTY INSURANCE \$(000)
2019	93,054	2,891	0	6,494	4,224	1,508	554	1,630	7	19,427	19,427	19,427
2020	89,417	2,778	0	6,240	2,944	1,503	567	1,630	1,183	18,250	17,311	36,739
2021	84,599	2,628	0	5,994	2,917	1,437	582	1,630	1,063	18,102	15,267	52,006
2022	79,565	2,484	0	5,581	2,883	1,372	596	1,630	934	17,930	13,463	65,469
2023	75,501	2,345	0	5,269	2,846	1,307	611	1,630	815	16,694	11,869	77,337
2024	71,196	2,212	0	4,969	2,803	1,241	626	1,630	710	16,011	10,460	87,798
2025	67,036	2,082	0	4,678	2,756	1,176	642	1,630	614	15,360	9,216	97,013
2026	63,012	1,957	0	4,397	2,705	1,111	658	1,630	520	14,728	8,116	105,129
2027	59,112	1,836	0	4,125	2,654	1,045	674	1,630	439	14,115	7,143	112,272
2028	55,222	1,716	0	3,855	2,584	980	691	1,630	369	13,525	6,277	118,548
2029	51,353	1,595	0	3,584	2,514	915	709	1,630	309	12,956	5,504	124,052
2030	47,474	1,475	0	3,313	2,444	849	726	1,630	249	12,407	4,816	128,849
2031	43,595	1,354	0	3,042	2,374	784	745	1,630	189	11,879	4,204	133,073
2032	39,715	1,234	0	2,772	2,304	719	763	1,630	129	11,371	3,660	136,733
2033	35,836	1,113	0	2,501	2,234	653	782	1,630	69	10,883	3,177	139,918
2034	31,957	993	0	2,230	2,164	588	802	1,630	9	9,855	2,748	142,638
2035	28,078	872	0	1,959	2,094	523	822	1,630	29	9,250	2,369	145,027
2036	24,198	752	0	1,688	2,024	457	842	1,630	29	8,644	2,033	147,069
2037	20,319	631	0	1,418	1,954	392	863	1,630	29	8,038	1,736	148,796
2038	16,440	511	0	1,147	1,884	327	885	1,630	29	7,433	1,474	150,270
2039	12,561	390	0	877	1,813	261	907	1,630	(510)	6,829	1,244	151,514
2040	9,441	269	0	609	1,743	196	930	1,630	(1,270)	6,234	1,060	152,423
2041	7,080	148	0	344	1,673	131	953	1,630	(1,270)	5,651	914	153,489
2042	4,720	27	0	83	1,603	65	977	1,630	(1,270)	5,088	786	154,274
2043	2,359	73	0	163	1,533	(0)	1,001	1,630	(1,270)	5,185	672	154,946

IN SERVICE COST (0000)	90,751
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
DEPR. RATE	33.57%
DISCOUNT RATE	3.9%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

SOURCE	WEIGHT	COST
DEBT	44%	7.03%
EIS	0%	0.0%
EIS	56%	12.5%

K-FACTOR = CPWFC / IN-SVC COST = 1.70736

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Lighting

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK/DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK/DEPR RATE MINUS LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(10)+(11) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	3,309	3,309	3,630	3,630	3,291	3,291	7	8,471	0	0	7		
2020	7.20%	6,371	9,680	3,630	7,260	3,291	6,582	1,188	8,471	0	0	0	7	
2021	6.00%	5,892	15,573	3,630	10,890	3,291	9,874	1,605	8,471	0	0	0	1,188	
2022	6.18%	5,454	21,027	3,630	14,520	3,291	13,165	836	8,471	0	0	0	1,605	
2023	5.71%	5,042	26,668	3,630	18,150	3,291	16,456	675	8,471	0	0	0	836	
2024	5.20%	4,664	30,732	3,630	21,780	3,291	19,747	530	8,471	0	0	0	675	
2025	4.80%	4,314	35,046	3,630	25,410	3,291	23,038	394	8,471	0	0	0	530	
2026	4.50%	3,991	39,037	3,630	29,040	3,291	26,330	270	8,471	0	0	0	394	
2027	4.40%	3,937	42,974	3,630	32,670	3,291	29,621	249	8,471	0	0	0	270	
2028	4.40%	3,937	46,911	3,630	36,300	3,291	32,912	249	8,471	0	0	0	249	
2029	4.40%	3,937	50,849	3,630	39,930	3,291	36,203	249	8,471	0	0	0	249	
2030	4.40%	3,937	54,786	3,630	43,560	3,291	39,494	249	8,471	0	0	0	249	
2031	4.40%	3,937	58,723	3,630	47,190	3,291	42,785	249	8,471	0	0	0	249	
2032	4.40%	3,937	62,660	3,630	50,820	3,291	46,076	249	8,471	0	0	0	249	
2033	4.40%	3,937	66,598	3,630	54,450	3,291	49,368	249	8,471	0	0	0	249	
2034	4.40%	3,937	70,535	3,630	58,080	3,291	52,659	249	8,471	0	0	0	249	
2035	4.40%	3,937	74,472	3,630	61,710	3,291	55,950	249	8,471	0	0	0	249	
2036	4.40%	3,937	78,409	3,630	65,340	3,291	59,242	249	8,471	0	0	0	249	
2037	4.40%	3,937	82,347	3,630	68,970	3,291	62,533	249	8,471	0	0	0	249	
2038	4.40%	3,937	86,284	3,630	72,600	3,291	65,824	249	8,471	0	0	0	249	
2039	2.20%	1,969	88,253	3,630	76,230	3,291	69,115	(510)	8,471	0	0	0	249	
2040	0.00%	0	88,253	3,630	79,860	3,291	72,406	(1,270)	8,471	0	0	0	249	
2041	0.00%	0	88,253	3,630	83,490	3,291	75,698	(1,270)	8,471	0	0	0	249	
2042	0.00%	0	88,253	3,630	87,120	3,291	78,989	(1,270)	8,471	0	0	0	249	
2043	0.00%	0	88,253	3,630	90,750	3,291	82,280	(1,270)	8,471	0	0	0	249	

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(2,505)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	8,471
BOOK/DEPR RATE - USEFUL LIFE	4.80%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_F02
 PROGRAM NAME: Business Lighting

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	3,500	7	37,121	3,630	(2,296)	33,054	39,437	31,235
2020	7.22%	6,371	1,188	33,491	7,250	(1,108)	35,417	34,589	37,008
2021	6.67%	5,892	1,003	29,861	10,890	(305)	34,599	29,545	32,282
2022	6.13%	5,434	834	26,231	14,520	730	33,965	25,501	27,733
2023	5.77%	5,042	675	22,601	18,150	1,495	33,301	21,196	23,948
2024	5.25%	4,664	530	18,971	21,780	1,935	31,196	17,036	19,116
2025	4.89%	4,314	394	15,341	25,410	2,329	28,036	13,012	15,024
2026	4.52%	3,991	270	11,710	29,040	2,599	24,832	9,113	11,032
2027	4.46%	3,938	249	8,080	32,670	2,848	21,112	5,232	7,172
2028	4.46%	3,937	249	4,450	36,300	3,077	17,232	1,253	3,293
2029	4.46%	3,938	249	800	39,930	3,247	13,353	474	494
2030	4.46%	3,937	249	47,190	43,560	3,396	9,474	43,585	45,334
2031	4.46%	3,938	249	43,560	47,190	3,545	4,995	39,715	41,633
2032	4.46%	3,937	249	39,930	50,820	4,094	3,715	35,836	37,778
2033	4.46%	3,938	249	36,300	54,450	4,343	34,836	31,957	33,897
2034	4.46%	3,937	249	32,670	58,080	4,593	31,957	28,078	30,017
2035	4.46%	3,938	249	29,040	61,710	4,842	28,078	24,198	26,138
2036	4.46%	3,937	249	25,410	65,341	5,091	24,198	20,319	22,259
2037	4.46%	3,938	249	21,780	68,971	5,340	20,319	16,440	18,379
2038	4.46%	3,937	249	18,150	72,601	5,589	16,440	12,561	14,500
2039	2.23%	1,969	(510)	14,520	76,231	5,079	12,561	9,441	11,001
2040	0.00%	0	(1,270)	10,890	79,861	3,810	9,441	7,080	8,261
2041	0.00%	0	(1,270)	7,260	83,491	2,540	7,080	4,720	5,900
2042	0.00%	0	(1,270)	3,630	87,121	1,271	4,720	2,359	3,540
2043	0.00%	0	(1,270)	(0)	90,751	1	2,359	-1	1,179

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	3.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.18%	1.24	0.62
2014	-5	3.00%	1.159	1.90%	15.29	9.28
2015	-4	3.00%	1.194	4.57%	39.61	37.63
2016	-3	3.00%	1.230	37.20%	361.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	598.84
2018	-1	3.00%	1.305	10.44%	98.79	558.38

YEAR	NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(8a)* DEBT AFUDC (\$K/W)	100.00% 397.77 (8b)* CUMULATIVE DEBT AFUDC (\$K/W)	(9) YEARLY TOTAL AFUDC (\$K/W)	(9a)* TOTAL AFUDC (\$K/W)	(9b)* CONSTRUCTION PERIOD INTEREST (\$K/W)	(9c)* CUMULATIVE CFY (\$K/W)	(9d)* DEFERRED TAXES (\$K/W)	(9e)* CUMULATIVE DEFERRED TAXES (\$K/W)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.02	0.62	0.05	0.05	0.04	0.04	0.00	0.00	0.00	0.00
2014	-5	9.29	0.29	0.34	0.79	0.84	0.63	0.70	(0.81)	(0.01)	1.29	1.29
2015	-4	37.87	1.18	1.49	3.22	4.96	2.63	3.33	(0.34)	(0.15)	16.78	18.07
2016	-3	236.84	7.07	8.56	19.29	23.36	15.30	19.25	(0.57)	(0.72)	42.83	60.90
2017	-2	622.26	19.46	28.01	53.10	76.45	43.47	19.25	(3.41)	(4.13)	351.16	412.06
2018	-1	594.83	29.46	57.47	80.39	156.84	64.78	62.72	(9.26)	(13.38)	473.37	885.43
								127.50	(13.63)	(27.02)	179.18	1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,805.5
AFUDC RATE	8.48%

	BOOK BASIS	BOOK BASIS FOR DEBT TAX	TAX BASIS
CONSTRUCTION CASH	77,381	77,381	77,381
EQUITY AFUDC	8,471		
DEBT AFUDC	4,899	4,899	
CFY			10,829
TOTAL	90,751	82,280	88,210

* Columns not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Lighting

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6) INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAMMER EFFECTIVENESS FACTOR	(9) PROGRAMMER EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	4,392	4,392	6.41	7.79	7.79	0.00	1.00	1.00
2011	12,340	12,340	6.35	7.54	6.97	0.00	1.00	1.00
2012	20,394	20,394	6.45	7.53	7.00	0.00	1.00	1.00
2013	28,784	28,784	7.06	7.79	7.44	0.00	1.00	1.00
2014	37,316	37,316	7.53	8.16	7.87	0.00	1.00	1.00
2015	44,514	44,514	8.11	8.88	8.33	0.00	1.00	1.00
2016	51,281	51,281	9.00	10.32	9.49	0.00	1.00	1.00
2017	58,751	58,751	9.75	11.25	10.50	0.00	1.00	1.00
2018	67,258	67,258	10.52	12.08	11.32	0.00	1.00	1.00
2019	67,258	67,258	11.30	13.49	12.52	10.41	1.00	1.00
2020	67,258	67,258	12.08	14.09	13.15	10.50	1.00	1.00
2021	67,258	67,258	12.57	14.70	13.59	10.74	1.00	1.00
2022	67,258	67,258	13.06	15.31	14.14	10.81	1.00	1.00
2023	67,258	67,258	13.59	15.92	14.41	10.80	1.00	1.00
2024	67,258	67,258	13.95	16.52	14.99	10.84	1.00	1.00
2025	67,258	67,258	14.40	16.25	15.44	10.86	1.00	1.00
2026	67,258	67,258	14.78	16.47	15.76	11.05	1.00	1.00
2027	67,258	67,258	15.23	16.78	16.07	11.17	1.00	1.00
2028	67,258	67,258	15.60	17.17	16.51	11.26	1.00	1.00
2029	67,258	67,258	16.02	17.59	16.84	11.41	1.00	1.00
2030	67,258	67,258	16.52	17.85	17.33	11.57	1.00	1.00
2031	67,258	67,258	17.08	18.43	17.89	11.80	1.00	1.00
2032	67,258	67,258	17.50	18.59	18.18	11.88	1.00	1.00
2033	67,258	67,258	18.27	19.27	18.84	12.10	1.00	1.00
2034	67,258	67,258	18.73	19.60	19.13	12.14	1.00	1.00
2035	67,258	67,258	19.57	20.42	20.06	12.29	1.00	1.00
2036	67,258	67,258	20.40	21.31	20.89	12.55	1.00	1.00
2037	67,258	67,258	21.11	21.95	21.56	12.70	1.00	1.00
2038	67,258	67,258	22.02	22.88	22.49	13.04	1.00	1.00
2039	67,258	67,258	22.78	23.59	23.02	13.32	1.00	1.00
2040	67,258	67,258	23.59	24.20	23.98	13.44	1.00	1.00
2041	67,258	67,258	24.54	25.00	24.91	13.75	1.00	1.00
2042	67,258	67,258	25.50	26.16	25.87	14.10	1.00	1.00
2043	67,258	67,258	26.74	27.64	27.22	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

BUSINESS REFRIGERATION

INPUT DATA - PART 1 CONTINUED
PROGRAM METHOD SELECTED: MSV_REQ
PROGRAM NAME: Business Refrigeration

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	1.98 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.51 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KW/KVA REDUCTION PER CUSTOMER	9,508.68 KVA
(5) KW LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KW/H INCREASE AT METER	0.59 KWH

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	25 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	25 YEARS
(4) K FACTOR FOR GENERATION	1.9728
(5) K FACTOR FOR T & D	1.6324

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	--- \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	--- \$/CUST
(3) UTILITY COST ESCALATION RATE	--- %
(4) CUSTOMER EQUIPMENT COST	--- \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	--- %
(6) CUSTOMER O & M COST	--- \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	--- %
(8) INCREASED SUPPLY COSTS	--- \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	2.89 %
(10) UTILITY DISCOUNT RATE	3.48 %
(11) UTILITY AFUDC RATE	--- \$/CUST
(12) UTILITY NON RECURRING REBATE/INCENTIVE	--- \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	--- \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	--- %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
-- VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
--- PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2015-2019
(4) BASE YEAR AVOIDED GENERATING COST	724.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.92 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.04 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %
(15) GENERATOR CAPACITY FACTOR	0% (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	8.23 CENTS PER KWH (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	--- CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	--- %
(3) DEMAND CHARGE IN CUSTOMER BILL	--- \$/KW&O
(4) DEMAND CHARGE ESCALATION RATE	--- %

* INPUT DATA -- PART 1 CONTINUED
 PROGRAM/MEASURD SELECTED: REV_REQ
 PROGRAM/NAME: Business Refrigeration

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2009	0	0	0	0	0	0	0	0	0	
2010	58	391	0	449	147	24	1,191	0	1,191	
2011	163	942	0	1,085	666	116	2,788	0	2,788	
2012	144	551	0	695	1,577	245	2,972	0	2,672	
2013	158	502	0	720	2,130	362	2,199	0	2,199	
2014	182	451	0	603	3,005	498	2,117	0	2,117	
2015	128	356	0	484	1,904	636	1,908	0	1,908	
2016	147	346	0	493	4,840	743	1,964	0	1,964	
2017	155	359	0	515	5,819	881	2,079	0	2,079	
2018	161	366	0	527	6,830	994	2,158	0	2,158	
2019	0	0	0	0	7,641	1,031	0	0	0	
2020	18	83	0	101	7,698	1,089	250	0	250	
2021	59	268	0	328	7,968	992	977	0	977	
2022	83	331	0	415	8,351	981	1,396	0	1,396	
2023	110	382	0	492	8,781	988	1,635	0	1,635	
2024	94	219	0	354	9,228	997	1,461	0	1,461	
2025	118	448	0	565	9,758	970	2,375	0	2,375	
2026	152	630	0	782	10,278	973	3,101	0	3,101	
2027	170	383	0	553	10,892	982	2,556	0	2,556	
2028	180	364	0	544	11,502	992	2,890	0	2,890	
2029	149	221	0	370	12,238	999	1,817	0	1,817	
2030	185	316	0	501	13,092	1,008	2,283	0	2,283	
2031	186	415	0	601	13,739	1,015	2,514	0	2,514	
2032	210	471	0	681	14,343	1,025	2,845	0	2,845	
2033	228	509	0	737	14,906	1,070	3,122	0	3,122	
2034	226	399	0	624	16,632	1,086	3,066	0	3,066	
2035	78	147	0	225	17,541	1,065	1,288	0	1,288	
2036	95	182	0	277	18,051	1,080	1,560	0	1,560	
2037	105	192	0	297	18,285	1,107	1,699	0	1,699	
2038	113	200	0	313	18,567	1,131	1,817	0	1,817	
2039	67	45	0	108	22,430	1,116	711	0	711	
2040	159	423	0	582	23,672	1,120	3,018	0	3,018	
2041	268	798	0	1,025	25,143	1,125	5,001	0	5,001	
2042	283	490	0	698	26,715	1,131	3,263	0	3,263	
2043	243	497	0	740	28,284	1,137	3,624	0	3,624	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
NOM	4,788	12,597	0	17,385	411,995	30,619	72,384	0	72,384	
NPV	1,356	4,335	0	5,691	71,536	7,285	20,549	0	20,549	

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR ITC AND RIM TESTS

CALCULATION OF GENE-FACTOR
PROGRAM/METHOD SELECTED:RSV_RSQ
PROGRAM/NAME: Business Refrigeration

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REG-YEAR RATE BASE \$'(000)	DEBT \$'(000)	PREFERRED STOCK \$'(000)	COMMON EQUITY \$'(000)	INCOME TAXES \$'(000)	PROPERTY TAX \$'(000)	PROPERTY INSURANCE \$'(000)	DEPRECIATION TAXES \$'(000)	TOTAL FIXED CHARGES \$'(000)	PRESENT WORTH FIXED CHARGES \$'(000)	CUMULATIVE FW FIXED CHARGES \$'(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$'(000)
2019	11,087	344	0	774	510	187	66	433	1	2,315	2,315	10,813
2020	10,654	331	0	744	351	179	68	433	142	2,046	4,377	11,083
2021	10,080	313	0	703	548	171	69	433	120	2,137	6,514	11,500
2022	9,322	296	0	665	544	163	71	433	89	2,071	8,585	11,644
2023	8,996	279	0	623	339	156	73	433	80	1,988	10,573	11,935
2024	8,433	264	0	592	334	148	75	428	63	1,908	12,481	12,294
2025	7,987	248	0	557	328	140	76	429	47	1,830	14,311	12,540
2026	7,508	233	0	524	322	132	78	423	32	1,755	16,066	12,653
2027	7,043	219	0	492	304	127	80	429	20	1,682	17,748	12,744
2028	6,581	204	0	459	284	117	82	423	10	1,609	19,357	12,804
2029	6,119	190	0	427	264	109	84	423	10	1,537	20,894	12,841
2030	5,656	176	0	395	244	101	87	423	10	1,464	22,358	12,877
2031	5,194	161	0	362	223	93	89	423	10	1,391	23,749	12,903
2032	4,732	147	0	330	203	86	91	423	10	1,319	25,068	12,920
2033	4,270	133	0	298	183	78	93	423	10	1,247	26,315	12,928
2034	3,808	118	0	266	163	70	96	423	10	1,174	27,491	12,928
2035	3,345	104	0	233	142	62	98	423	10	1,102	28,603	12,920
2036	2,883	90	0	201	122	54	100	423	10	1,030	29,653	12,913
2037	2,421	75	0	169	102	47	103	423	10	958	30,653	12,906
2038	1,959	61	0	137	82	39	105	423	10	886	31,603	12,899
2039	1,497	46	0	104	62	31	108	423	(51)	814	32,503	12,891
2040	1,125	35	0	79	42	23	111	423	(151)	753	33,353	12,884
2041	844	26	0	59	214	16	114	423	(151)	700	34,153	12,877
2042	562	17	0	39	261	8	116	423	(151)	648	34,903	12,870
2043	281	9	0	20	189	0	119	423	(151)	618	35,513	12,863

IN SERVICE COST	(3000)	10,813
IN SERVICE YEAR		2019
BOOK LIFE (YRS)		25
EFFECT. TAX RATE		38.57%
DISCOUNT RATE		8.9%
PROPERTY TAX		1.80%
PROPERTY INSURANCE		0.51%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	44%	7.83%
PFS	0%	0.00%
CFS	56%	12.50%

$K_r \text{ FACTOR} = \frac{CFWC}{IN-SVC \text{ COST}} = 1.70738$

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: KSV_REQ
 PROGRAM NAME: Business Refrigeration

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULES	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUSTO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MONTHS/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	394	394	433	433	392	392	1	1,000	0	0	0	1	(234)
2020	7.22%	739	1,133	433	865	392	784	142	1,000	0	0	0	142	(132)
2021	6.68%	702	1,835	433	1,298	392	1,176	120	1,000	0	0	0	120	(13)
2022	6.18%	639	2,475	433	1,730	392	1,569	39	1,000	0	0	0	39	87
2023	5.70%	601	3,106	433	2,163	392	1,961	80	1,000	0	0	0	80	167
2024	5.29%	556	3,682	433	2,595	392	2,353	63	1,000	0	0	0	63	230
2025	4.89%	514	4,176	433	3,028	392	2,745	47	1,000	0	0	0	47	277
2026	4.52%	475	4,651	433	3,460	392	3,137	32	1,000	0	0	0	32	310
2027	4.18%	439	5,120	433	3,893	392	3,529	30	1,000	0	0	0	30	339
2028	3.87%	405	5,589	433	4,325	392	3,921	30	1,000	0	0	0	30	369
2029	3.58%	373	6,059	433	4,758	392	4,314	30	1,000	0	0	0	30	399
2030	3.31%	343	6,528	433	5,190	392	4,706	30	1,000	0	0	0	30	429
2031	3.06%	315	6,997	433	5,623	392	5,098	30	1,000	0	0	0	30	458
2032	2.83%	289	7,466	433	6,055	392	5,490	30	1,000	0	0	0	30	488
2033	2.61%	265	7,935	433	6,488	392	5,882	30	1,000	0	0	0	30	518
2034	2.41%	242	8,404	433	6,920	392	6,274	30	1,000	0	0	0	30	547
2035	2.22%	221	8,873	433	7,353	392	6,666	30	1,000	0	0	0	30	577
2036	2.05%	201	9,342	433	7,785	392	7,059	30	1,000	0	0	0	30	607
2037	1.89%	182	9,812	433	8,218	392	7,451	30	1,000	0	0	0	30	636
2038	1.75%	165	10,281	433	8,650	392	7,843	30	1,000	0	0	0	30	666
2039	1.62%	150	10,751	433	9,083	392	8,235	(33)	1,000	0	0	0	(33)	625
2040	1.51%	136	11,221	433	9,515	392	8,627	(151)	1,000	0	0	0	(151)	454
2041	1.41%	123	11,691	433	9,948	392	9,019	(151)	1,000	0	0	0	(151)	303
2042	1.32%	111	12,161	433	10,380	392	9,411	(151)	1,000	0	0	0	(151)	151
2043	1.24%	100	12,631	433	10,813	392	9,804	(151)	1,000	0	0	0	(151)	0

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE/ COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(234)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,000
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Refrigeration

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(6)* ACCUMULATED DEPRECIATION \$(000)	(6)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	3.75%	394	1	10,380	433	(274)	11,087	10,654	10,871
2020	7.22%	759	142	9,548	865	(132)	10,654	10,089	10,367
2021	6.69%	702	128	8,715	1,296	(12)	10,089	9,528	9,804
2022	6.15%	650	99	7,882	1,730	87	9,528	8,996	9,282
2023	5.71%	602	80	7,050	2,163	167	8,996	8,483	8,739
2024	5.29%	556	63	6,218	2,595	230	8,483	7,987	8,235
2025	4.89%	514	47	5,385	3,028	277	7,987	7,508	7,747
2026	4.52%	475	32	4,553	3,460	310	7,508	7,043	7,275
2027	4.16%	440	20	3,720	3,893	339	7,043	6,581	6,812
2028	4.16%	440	30	2,888	4,325	369	6,581	6,119	6,350
2029	4.16%	440	30	2,055	4,758	399	6,119	5,656	5,888
2030	4.16%	440	30	1,222	5,190	428	5,656	5,194	5,425
2031	4.16%	440	30	390	5,622	458	5,194	4,732	4,963
2032	4.16%	440	30	48	6,055	488	4,732	4,270	4,501
2033	4.16%	440	30	0	6,488	518	4,270	3,808	4,039
2034	4.16%	440	30	0	6,920	547	3,808	3,345	3,577
2035	4.16%	440	30	0	7,353	577	3,345	2,883	3,114
2036	4.16%	440	30	0	7,785	607	2,883	2,421	2,652
2037	4.16%	440	30	0	8,218	636	2,421	1,959	2,190
2038	4.16%	440	30	0	8,650	666	1,959	1,497	1,728
2039	2.23%	225	(61)	1,730	9,083	695	1,497	1,125	1,311
2040	0.00%	0	(151)	1,298	9,515	454	844	844	884
2041	0.00%	0	(151)	865	9,948	303	844	562	703
2042	0.00%	0	(151)	433	10,380	151	562	281	422
2043	0.00%	0	(151)	0	10,813	0	281	0	141

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (\$K)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	0.00%	1.030	0.00%	0.00	0.00
2011	-8	0.00%	1.061	0.00%	0.00	0.00
2012	-7	0.00%	1.093	0.00%	0.00	0.00
2013	-6	0.00%	1.126	0.15%	1.24	0.02
2014	-5	0.00%	1.159	1.00%	15.09	9.24
2015	-4	0.00%	1.194	4.57%	39.61	37.03
2016	-3	0.00%	1.230	37.20%	331.87	221.77
2017	-2	0.00%	1.267	45.74%	420.27	598.84
2018	-1	0.00%	1.305	10.44%	98.79	858.38

100.00% 507.77

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(9) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(10)* DEBT AFUDC (\$K/W)	(11)* CUMULATIVE DEBT AFUDC (\$K/W)	(12) YEARLY TOTAL AFUDC (\$K/W)	(13)* CUMULATIVE TOTAL AFUDC (\$K/W)	(14)* CONSTRUCTION PERIOD INTEREST (\$K/W)	(15)* CUMULATIVE CPI (\$K/W)	(16)* DEFERRED TAXES (\$K/W)	(17)* DEFERRED TAXES (\$K/W)	(18) YEAR-END BOOK VALUE (\$K/W)	(19) YEAR-END CUMULATIVE BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.02	0.02	0.02	0.05	0.05	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	0.29	0.79	0.94	0.65	1.70	(0.14)	(0.15)	15.78	15.07
2015	-4	37.87	1.18	1.47	3.22	4.06	2.85	3.35	(0.57)	(0.72)	42.43	62.90
2016	-3	226.84	7.07	8.56	19.29	23.36	15.30	19.05	(3.41)	(4.13)	351.16	412.06
2017	-2	622.20	19.46	20.61	53.10	76.45	43.47	62.73	(9.06)	(13.39)	473.57	885.43
2018	-1	934.83	29.46	57.47	80.50	156.84	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

57.47

156.84

127.50

(27.02)

1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,805
AFUDC RATE	0.68%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAXBASIS
CONSTRUCTION CASE	9,220	9,220	9,220
EQUITY AFUDC	1,009		
DEBT AFUDC	584	584	
CPI			1,295
TOTAL	10,813	9,804	10,515

* Column not specified in workbook

INFO/ DATA -- PART 2
 PROGRAMS/ METRIC SELECTED: REV_REQ
 PROGRAM NAME: Business Refrigeration

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/kWh)	(5) AVOIDED MARGINAL FUEL COST (\$/kWh)	(6)* INCREASED MARGINAL FUEL COST (\$/kWh)	(7) REPLACEMENT FUEL COST (\$/kWh)	(8) PROGRAM/ KW EFFECTIVENESS FACTOR	(9) PROGRAM/ KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	335	335	6.41	6.41	16.51	0.00	1.00	1.00
2011	1,774	1,774	6.35	6.35	10.38	0.00	1.00	1.00
2012	2,701	2,701	6.43	6.43	13.34	0.00	1.00	1.00
2013	3,666	3,666	7.06	7.06	9.39	0.00	1.00	1.00
2014	4,572	4,572	7.53	7.53	10.61	0.00	1.00	1.00
2015	5,377	5,377	8.11	8.11	13.20	0.00	1.00	1.00
2016	6,158	6,158	9.00	9.00	13.90	0.00	1.00	1.00
2017	6,902	6,902	9.75	9.75	15.09	0.00	1.00	1.00
2018	7,771	7,771	10.82	10.82	15.46	0.00	1.00	1.00
2019	7,771	7,771	11.50	11.50	21.44	10.41	1.00	1.00
2020	7,771	7,771	12.08	12.08	20.37	10.50	1.00	1.00
2021	7,771	7,771	12.57	12.57	21.76	10.74	1.00	1.00
2022	7,771	7,771	13.06	13.06	23.66	10.81	1.00	1.00
2023	7,771	7,771	13.39	13.39	20.91	10.80	1.00	1.00
2024	7,771	7,771	13.95	13.95	22.19	10.84	1.00	1.00
2025	7,771	7,771	14.40	14.40	22.20	10.96	1.00	1.00
2026	7,771	7,771	14.70	14.70	22.41	11.05	1.00	1.00
2027	7,771	7,771	15.13	15.13	23.05	11.17	1.00	1.00
2028	7,771	7,771	15.60	15.60	23.70	11.36	1.00	1.00
2029	7,771	7,771	16.02	16.02	22.95	11.61	1.00	1.00
2030	7,771	7,771	16.52	16.52	23.78	11.59	1.00	1.00
2031	7,771	7,771	17.08	17.08	24.53	11.80	1.00	1.00
2032	7,771	7,771	17.50	17.50	24.55	11.88	1.00	1.00
2033	7,771	7,771	18.27	18.27	25.51	12.18	1.00	1.00
2034	7,771	7,771	18.73	18.73	25.89	12.14	1.00	1.00
2035	7,771	7,771	19.37	19.37	27.64	12.20	1.00	1.00
2036	7,771	7,771	20.40	20.40	28.20	12.55	1.00	1.00
2037	7,771	7,771	21.11	21.11	29.22	12.70	1.00	1.00
2038	7,771	7,771	22.02	22.02	30.23	13.04	1.00	1.00
2039	7,771	7,771	22.78	22.78	31.23	13.22	1.00	1.00
2040	7,771	7,771	23.59	23.59	32.02	13.44	1.00	1.00
2041	7,771	7,771	24.54	24.54	33.28	13.75	1.00	1.00
2042	7,771	7,771	25.50	25.50	34.66	14.10	1.00	1.00
2043	7,771	7,771	26.74	26.74	36.69	14.60	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

RATE IMPACT TEST
 PROGRAM/METHOD SELECTED: REV_NEQ
 PROGRAM NAME: Business Refrigeration

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED TAG BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0	(0)	(0)
2010	0	58	291	171	0	620	163	0	1	164	164	(456)	(419)
2011	0	163	842	782	0	1,787	697	31	2	730	730	(1,057)	(1,311)
2012	0	144	551	1,022	0	2,317	1,369	194	3	1,476	1,476	(841)	(1,902)
2013	0	158	562	2,092	0	3,012	2,138	162	0	217	2,517	(695)	(2,456)
2014	0	152	451	3,203	0	4,106	2,948	238	0	312	3,478	(628)	(2,807)
2015	0	133	356	4,540	0	5,034	3,628	271	0	416	4,525	(506)	(3,172)
2016	0	147	339	5,386	0	6,079	4,504	317	0	336	5,789	(290)	(3,383)
2017	0	155	339	6,701	0	7,215	5,084	362	0	469	7,114	(101)	(3,382)
2018	0	161	366	7,823	0	8,350	7,369	469	0	617	8,595	245	(1,269)
2019	0	0	0	8,672	0	8,672	11,281	463	0	820	12,654	3,983	(1,612)
2020	0	18	33	9,707	0	9,808	11,512	440	0	942	12,794	3,086	(49)
2021	0	29	269	8,939	0	9,287	11,785	427	0	905	13,097	3,810	1,322
2022	0	83	331	9,332	0	9,746	12,115	415	0	1,012	13,542	3,795	2,577
2023	0	110	282	9,688	0	10,130	12,497	403	0	1,074	13,884	3,700	3,792
2024	0	94	259	10,226	0	10,579	12,845	391	0	1,188	14,424	3,845	4,734
2025	0	112	448	10,727	0	11,283	13,172	379	0	1,302	14,823	3,901	5,886
2026	0	152	630	11,281	0	12,057	13,451	368	0	1,370	15,153	3,120	6,419
2027	0	170	383	11,974	0	12,527	13,757	357	0	1,488	15,596	3,068	7,982
2028	0	189	364	12,555	0	13,089	14,084	345	0	1,634	16,053	2,954	7,668
2029	0	149	221	13,237	0	13,627	14,466	334	0	1,811	16,611	3,004	8,215
2030	0	185	316	14,010	0	14,511	14,822	323	0	1,947	17,182	2,591	8,659
2031	0	186	415	14,774	0	15,375	15,224	312	0	2,117	17,683	2,278	8,999
2032	0	210	471	15,777	0	16,458	15,622	301	0	2,294	18,217	1,789	9,247
2033	0	228	509	17,376	0	18,113	16,194	291	0	2,440	18,916	803	9,351
2034	0	226	399	17,718	0	18,342	16,645	282	0	2,630	19,558	1,215	9,496
2035	0	78	147	18,606	0	18,831	17,311	274	0	2,847	20,431	1,696	9,671
2036	0	95	182	20,131	0	20,408	17,892	266	0	3,074	21,332	824	9,733
2037	0	106	192	21,312	0	21,609	18,484	259	0	3,322	22,065	455	9,795
2038	0	113	200	22,378	0	22,691	19,070	253	0	3,583	22,904	215	9,813
2039	0	63	45	23,546	0	23,654	19,585	248	0	3,865	23,697	43	9,817
2040	0	169	423	24,792	0	25,343	20,305	243	0	4,162	24,711	(673)	9,789
2041	0	268	738	26,269	0	27,295	20,973	238	0	4,474	25,625	(1,610)	9,603
2042	0	203	450	27,846	0	28,504	21,639	234	0	4,912	26,784	(1,728)	9,500
2043	0	243	497	29,531	0	30,271	22,557	229	0	5,386	28,122	(2,699)	9,443
2044	0	0	0	0	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0	0	0
NOM.	0	4,788	12,527	442,614	0	459,929	426,676	3,339	0	63,442	500,877	48,878	
NPV	0	1,356	4,233	78,811	0	84,503	81,625	2,750	0	3,572	23,946	3,443	

Discount Rate
 Benefit/Cost Ratio (Col(12) / Col(7)) =

8.29 %
 1.11

BUSINESS BUILDING ENVELOPE PROGRAM

INPUT DATA - PART 1 CONTINUED
PROGRAM METHOD SELECTED: ESY_EBQ
PROGRAM NAME: Business Building Envelope Program

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.85 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.15 KW
(3) KW LINE LOSS PERCENTAGE	3.65 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	2.134,08 KVA
(5) KVA LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.00 KVA

II. ECONOMIC LIFE & X FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) X FACTOR FOR GENERATION	1.70735
(5) X FACTOR FOR T & D	1.63254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/COST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/COST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/COST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/COST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/COST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	5.83 %
(11) UTILITY ASUDC RATE	5.48 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/COST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/COST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	37.66 \$/KW/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O & M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KVA
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$ 21 CENTS PER KW-HR** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW&D
(4) DEMAND CHARGE ESCALATION RATE	*** %

CALCULATION OF GENS-FACTOR
PROGRAM/METHOD SELECTED REV_REQ
PROGRAM/NAME: Business Building Envelope Program

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
YEAR	BEG-YEAR RATE-BASE \$'(000)	DEBT \$'(000)	PREFERRED STOCK \$'(000)	COMMON EQUITY \$'(000)	INCOME TAXES \$'(000)	PROPERTY TAX \$'(000)	PROPERTY INSURANCE \$'(000)	DEPREC. \$'(000)	DEFERRED TAXES \$'(000)	TOTAL FIXED CHARGES \$'(000)	PRESENT WORTH FIXED CHARGES \$'(000)	CUMULATIVE PW FIXED CHARGES \$'(000)	REPLACEMENT COST-BASE FOR PROPERTY INSURANCE \$'(000)
2019	156,044	4,847	0	10,894	7,184	2,630	928	6,087	12	32,578	32,578	32,578	152,182
2020	149,945	4,638	0	10,468	4,936	2,920	822	6,087	1,992	31,618	29,630	61,608	155,987
2021	141,866	4,407	0	9,900	4,892	2,411	775	6,087	1,683	30,355	25,682	87,210	159,886
2022	134,696	4,166	0	9,338	4,835	2,301	1,500	6,087	1,389	29,144	22,576	109,786	163,884
2023	126,609	3,933	0	8,836	4,773	2,191	1,225	6,087	1,132	27,978	19,903	129,689	167,981
2024	119,390	3,709	0	8,332	4,701	2,082	1,050	6,087	888	26,849	17,541	147,230	172,138
2025	112,414	3,492	0	7,845	4,622	1,972	1,077	6,087	661	25,727	15,454	162,684	176,485
2026	105,686	3,282	0	7,374	4,535	1,863	1,103	6,087	432	24,608	13,609	176,293	180,897
2027	99,126	3,079	0	6,918	4,433	1,753	1,131	6,087	418	23,470	11,978	188,271	185,419
2028	92,820	2,877	0	6,464	4,328	1,644	1,159	6,087	418	22,347	10,525	198,796	190,035
2029	86,116	2,675	0	6,010	4,213	1,534	1,188	6,087	418	21,225	9,230	208,027	194,886
2030	79,610	2,473	0	5,556	4,098	1,424	1,218	6,087	418	20,104	8,077	216,103	199,676
2031	73,185	2,271	0	5,102	3,983	1,315	1,248	6,087	418	19,024	7,050	223,153	204,688
2032	66,600	2,069	0	4,648	3,858	1,205	1,278	6,087	418	18,565	6,138	228,291	209,785
2033	60,095	1,867	0	4,194	3,732	1,096	1,312	6,087	418	17,546	5,327	234,619	215,029
2034	53,589	1,665	0	3,740	3,598	986	1,344	6,087	418	16,528	4,609	239,227	220,485
2035	47,084	1,463	0	3,286	3,462	877	1,378	6,087	418	15,511	3,972	243,199	225,915
2036	40,579	1,261	0	2,832	3,327	767	1,413	6,087	418	14,495	3,408	246,608	231,563
2037	34,074	1,058	0	2,378	3,192	657	1,448	6,087	418	13,479	2,911	249,526	237,352
2038	27,568	856	0	1,924	3,057	548	1,484	6,087	418	12,463	2,473	251,992	243,286
2039	21,063	654	0	1,470	2,922	438	1,521	6,087	(845)	11,451	2,086	254,078	249,348
2040	15,831	452	0	1,105	2,787	329	1,559	6,087	(2,129)	10,422	1,777	255,856	255,692
2041	11,873	269	0	829	2,652	219	1,598	6,087	(2,129)	9,379	1,533	257,389	261,592
2042	7,915	146	0	532	2,517	110	1,638	6,087	(2,129)	8,337	1,318	258,707	268,542
2043	3,957	123	0	276	2,382	0	1,679	6,087	(2,129)	7,296	1,127	259,833	275,256

IN SERVICE COST (\$000)	152,182
IN SERVICE YEAR	2019
BOOK LNB (YRS)	25
DEPREC. RATE	38.37%
DISCOUNT RATE	8.9%
PROPERTY TAX	1.81%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	44%	7.9%
P/S	0%	6.0%
CS	56%	12.5%

K-FACTOR = CPWEG / IN-SVC COST = 1.7078

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM(METHOD) SELECTED: REV_REQ
 PROGRAM(NAME): Business Building Envelope Program

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUES TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE AGNUS LIFE	(10)*(11) \$(000)	SALVAGE TACKRATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	5,550	5,550	6,087	6,087	5,519	5,519	12	14,205	0	0	0	12	(3,850)
2020	7.22%	10,683	16,233	6,087	12,175	5,519	11,038	1,992	14,205	0	0	0	1,992	(1,835)
2021	6.69%	9,851	26,114	6,087	18,262	5,519	16,557	1,603	14,205	0	0	0	1,603	(1,75)
2022	6.18%	9,146	35,260	6,087	24,349	5,519	22,076	1,399	14,205	0	0	0	1,399	1,224
2023	5.71%	8,435	43,714	6,087	30,436	5,519	27,596	1,132	14,205	0	0	0	1,132	2,356
2024	5.29%	7,821	51,536	6,087	36,524	5,519	33,115	888	14,205	0	0	0	888	3,244
2025	4.89%	7,254	58,769	6,087	42,611	5,519	38,634	692	14,205	0	0	0	692	3,965
2026	4.52%	6,692	65,461	6,087	48,698	5,519	44,153	492	14,205	0	0	0	492	4,458
2027	4.16%	6,093	72,065	6,087	54,786	5,519	49,672	418	14,205	0	0	0	418	4,776
2028	4.46%	6,082	78,666	6,087	60,873	5,519	55,191	418	14,205	0	0	0	418	5,194
2029	4.46%	6,083	85,270	6,087	66,960	5,519	60,710	418	14,205	0	0	0	418	5,612
2030	4.46%	6,082	91,871	6,087	73,047	5,519	66,229	418	14,205	0	0	0	418	6,030
2031	4.46%	6,083	98,475	6,087	79,135	5,519	71,748	418	14,205	0	0	0	418	6,448
2032	4.46%	6,082	105,076	6,087	85,222	5,519	77,267	418	14,205	0	0	0	418	6,865
2033	4.46%	6,083	111,680	6,087	91,309	5,519	82,787	418	14,205	0	0	0	418	7,284
2034	4.46%	6,082	118,282	6,087	97,397	5,519	88,306	418	14,205	0	0	0	418	7,701
2035	4.46%	6,083	124,885	6,087	103,484	5,519	93,825	418	14,205	0	0	0	418	8,120
2036	4.46%	6,082	131,487	6,087	109,571	5,519	99,344	418	14,205	0	0	0	418	8,537
2037	4.46%	6,083	138,090	6,087	115,658	5,519	104,863	418	14,205	0	0	0	418	8,955
2038	4.46%	6,082	144,692	6,087	121,746	5,519	110,382	418	14,205	0	0	0	418	9,373
2039	2.23%	3,302	147,993	6,087	127,833	5,519	115,901	(835)	14,205	0	0	0	(835)	9,516
2040	0.00%	0	147,993	6,087	133,920	5,519	121,420	(2,125)	14,205	0	0	0	(2,125)	6,389
2041	0.00%	0	147,993	6,087	140,008	5,519	126,939	(2,125)	14,205	0	0	0	(2,125)	4,260
2042	0.00%	0	147,993	6,087	146,095	5,519	132,458	(2,125)	14,205	0	0	0	(2,125)	2,131
2043	0.00%	0	147,993	6,087	152,182	5,519	137,978	(2,125)	14,205	0	0	0	(2,125)	2

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,862)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	14,205
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Building Envelope Program

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE-BASE \$(000)
2019	3.75%	3,590	12	146,893	6,087	(3,850)	146,044	149,945	152,994
2020	7.22%	10,683	1,992	140,908	12,175	(3,836)	149,945	141,866	145,905
2021	6.88%	9,881	1,683	133,920	18,262	(175)	141,866	134,896	137,981
2022	6.18%	9,146	1,399	127,833	24,349	1,238	134,896	126,909	130,932
2023	5.71%	8,455	1,132	121,746	30,436	2,356	126,909	119,399	123,900
2024	5.22%	7,821	888	115,658	36,524	3,444	119,399	112,414	115,902
2025	4.82%	7,224	661	109,571	42,611	3,905	112,414	105,666	109,040
2026	4.52%	6,692	452	103,484	48,698	4,358	105,666	99,126	102,206
2027	4.42%	6,603	418	97,397	54,786	4,776	99,126	92,620	95,873
2028	4.42%	6,602	418	91,309	60,873	5,194	92,620	86,116	89,368
2029	4.42%	6,603	418	85,222	66,960	5,612	86,116	79,610	82,863
2030	4.42%	6,602	418	79,135	73,047	6,030	79,610	73,105	76,358
2031	4.42%	6,603	418	73,047	79,135	6,448	73,105	66,600	69,852
2032	4.42%	6,602	418	66,960	85,222	6,865	66,600	60,095	63,347
2033	4.42%	6,603	418	60,873	91,309	7,284	60,095	53,589	56,842
2034	4.42%	6,602	418	54,786	97,397	7,701	53,589	47,084	50,337
2035	4.42%	6,603	418	48,698	103,484	8,120	47,084	40,579	43,831
2036	4.42%	6,602	418	42,611	109,571	8,537	40,579	34,074	37,326
2037	4.42%	6,603	418	36,524	115,658	8,955	34,074	27,568	30,821
2038	4.42%	6,602	418	30,436	121,746	9,373	27,568	21,063	24,316
2039	2.33%	3,302	(855)	24,349	127,833	8,538	21,063	15,531	18,447
2040	0.00%	0	(2,129)	18,262	133,920	6,389	15,531	11,873	13,822
2041	0.00%	0	(2,129)	12,175	140,908	4,260	11,873	7,915	9,894
2042	0.00%	0	(2,129)	6,087	146,995	2,131	7,915	3,957	5,936
2043	0.00%	0	(2,129)	0	152,182	2	3,957	-2	1,977

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/KW)	(7) CUMULATIVE AVERAGE SPENDING (\$/KW)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.62
2014	-5	3.00%	1.159	1.90%	15.99	9.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.230	37.00%	331.87	222.77
2017	-2	3.00%	1.267	43.74%	420.27	298.84
2018	-1	3.00%	1.305	10.44%	98.79	88.38

100.00% 907.77

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/KW)	(8a)* DEBT AFUDC (\$/KW)	(8b)* CUMULATIVE DEBT AFUDC (\$/KW)	(9) YEARLY TOTAL AFUDC (\$/KW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/KW)	(9b)** CONSTRUCTION PERIOD INTEREST (\$/KW)	(9c)** CUMULATIVE CPI (\$/KW)	(9d)* DEFERRED TAXES (\$/KW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/KW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/KW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.02	0.02	0.05	0.05	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	0.30	0.79	0.84	0.65	0.70	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.07	8.56	19.29	23.36	15.90	19.25	(3.41)	(4.13)	351.16	412.06
2017	-2	622.00	19.46	28.01	53.10	76.45	43.47	62.72	(9.26)	(13.39)	473.37	885.43
2018	-1	934.83	29.46	57.47	80.39	136.84	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

57.47

156.84

127.50

(27.02)

1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,805.5
AFUDC RATE	8.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	129,763	129,763	129,763
EQUITY AFUDC	14,205		
DEBT AFUDC	8,215	8,215	
CPI			18,226
TOTAL	152,183	137,978	147,989

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV_YEQ
 PROGRAM NAME: Business Duffing Envelope Program

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (C/KWH)	(5) AVOIDED MARGINAL FUEL COST (C/KWH)	(6)* INCREASED MARGINAL FUEL COST (C/KWH)	(7) REPLACEMENT FUEL COST (C/KVA)	(8) PROGRAM KW EFFECTIVENESS FACTOR	(9) PROGRAM KW EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	5,710	5,710	6.61	9.01	6.70	0.00	1.00	1.00
2011	20,793	20,793	6.25	8.48	6.61	0.00	1.00	1.00
2012	38,318	38,318	6.43	8.45	6.66	0.00	1.00	1.00
2013	57,349	57,349	7.06	8.61	7.23	0.00	1.00	1.00
2014	73,849	73,849	7.53	8.67	7.68	0.00	1.00	1.00
2015	93,905	93,905	8.11	9.61	8.31	0.00	1.00	1.00
2016	106,306	106,306	9.00	11.55	9.31	0.00	1.00	1.00
2017	118,205	118,205	9.75	12.72	10.06	0.00	1.00	1.00
2018	124,282	124,282	10.52	13.53	10.86	0.00	1.00	1.00
2019	124,282	124,282	11.39	13.25	11.94	0.00	1.00	1.00
2020	124,282	124,282	12.08	15.83	12.57	0.00	1.00	1.00
2021	124,282	124,282	12.57	16.53	13.08	0.00	1.00	1.00
2022	124,282	124,282	13.06	17.14	13.59	0.00	1.00	1.00
2023	124,282	124,282	13.39	17.16	13.92	0.00	1.00	1.00
2024	124,282	124,282	13.95	17.82	14.67	0.00	1.00	1.00
2025	124,282	124,282	14.40	18.22	14.92	0.00	1.00	1.00
2026	124,282	124,282	14.76	18.32	15.19	0.00	1.00	1.00
2027	124,282	124,282	15.13	18.54	15.60	0.00	1.00	1.00
2028	124,282	124,282	15.60	18.91	16.05	0.00	1.00	1.00
2029	124,282	124,282	16.02	18.85	16.44	0.00	1.00	1.00
2030	124,282	124,282	16.52	19.26	16.92	0.00	1.00	1.00
2031	124,282	124,282	17.08	19.86	17.47	0.00	1.00	1.00
2032	124,282	124,282	17.50	19.62	17.54	0.00	1.00	1.00
2033	124,282	124,282	18.27	20.38	18.50	0.00	1.00	1.00
2034	124,282	124,282	18.73	20.08	18.86	0.00	1.00	1.00
2035	124,282	124,282	19.57	21.37	19.75	0.00	1.00	1.00
2036	124,282	124,282	20.40	21.59	20.54	0.00	1.00	1.00
2037	124,282	124,282	21.11	22.91	21.24	0.00	1.00	1.00
2038	124,282	124,282	21.62	23.66	22.16	0.00	1.00	1.00
2039	124,282	124,282	22.78	24.49	22.89	0.00	1.00	1.00
2040	124,282	124,282	23.59	25.04	23.68	0.00	1.00	1.00
2041	124,282	124,282	24.54	25.93	24.82	0.00	1.00	1.00
2042	124,282	124,282	25.50	26.84	25.39	0.00	1.00	1.00
2043	124,282	124,282	26.74	28.65	26.85	0.00	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Business Building Envelope Program

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS BY PARTICIPANTS DEDS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER REQUIREMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	8,503	11,923	0	0	13,923	(5,421)	(5,978)
2010	796	0	7,707	0	24,341	38,370	0	0	38,370	(14,030)	(16,811)
2011	3,750	0	20,591	0	32,877	46,268	0	0	46,268	(23,501)	(27,184)
2012	8,706	0	24,171	0	41,347	32,185	0	0	32,185	(10,758)	(34,837)
2013	14,809	0	26,538	0	47,873	22,477	0	0	22,477	(4,884)	(37,845)
2014	21,850	0	26,024	0	54,845	23,288	0	0	23,288	1,557	(16,910)
2015	29,138	0	17,867	0	33,306	37,809	0	0	37,809	15,437	(28,444)
2016	35,440	0	17,216	0	34,475	37,397	0	0	37,397	21,078	(17,737)
2017	41,259	0	8,835	0	34,285	19,214	0	0	19,214	34,889	(1,476)
2018	45,572	0	0	0	48,228	0	0	0	0	48,228	19,108
2019	48,228	0	418	0	48,612	980	0	0	980	47,632	37,780
2020	48,193	0	0	0	48,704	1,494	0	0	1,494	48,210	55,135
2021	49,147	0	557	0	51,213	1,544	0	0	1,544	49,670	71,256
2022	50,632	0	561	0	52,973	1,856	0	0	1,856	51,113	87,877
2023	52,261	0	713	0	54,947	701	0	0	701	54,246	102,205
2024	54,686	0	261	0	63,505	18,030	0	0	18,030	45,474	113,849
2025	56,609	0	489	0	78,072	51,306	0	0	51,306	26,507	120,097
2026	58,926	0	22,686	0	84,831	62,730	0	0	62,730	22,100	124,871
2027	62,145	0	24,924	0	89,696	70,840	0	0	70,840	18,256	126,611
2028	64,771	0	24,924	0	92,717	72,807	0	0	72,807	19,910	128,238
2029	67,792	0	25,838	0	93,632	58,568	0	0	58,568	34,548	125,438
2030	71,237	0	19,642	0	97,636	58,249	0	0	58,249	35,883	140,888
2031	74,609	0	18,476	0	96,525	32,410	0	0	32,410	64,056	154,733
2032	79,160	0	10,657	0	83,206	3,616	0	0	3,616	85,585	164,939
2033	84,448	0	1,100	0	82,383	2,241	0	0	2,241	90,142	174,792
2034	91,722	0	661	0	98,749	993	0	0	993	97,756	184,605
2035	98,480	0	269	0	104,896	853	0	0	853	103,044	194,123
2036	103,871	0	190	0	108,710	737	0	0	737	107,973	203,285
2037	108,520	0	0	0	113,626	0	0	0	0	113,626	212,190
2038	113,626	0	0	0	126,373	27,719	0	0	27,719	98,654	219,145
2039	119,039	0	7,314	0	145,214	77,043	0	0	77,043	68,170	223,613
2040	125,511	0	15,703	0	155,644	33,382	0	0	33,382	62,262	227,265
2041	132,397	0	23,947	0	165,384	105,639	0	0	105,639	39,746	230,670
2042	139,747	0	0	0	0	0	0	0	0	0	0
2043	0	0	0	0	0	0	0	0	0	0	0
2044	0	0	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0
NOM	2,247,219	0	427,318	0	2,674,537	1,172,460	0	0	1,172,460	1,502,076	
NPV	422,714	0	154,596	0	577,310	346,640	0	0	346,640	230,670	

In Service of Gen Unit
Discount Rate:
Benefit/Cost Ratio (Col(6) / Col(10))

2019
2.28 %
1.67

BUSINESS WATER HEATING

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: EBY_REQ
PROGRAM NAME: Business Water Heating

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.94 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.26 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KW REDUCTION PER CUSTOMER	7,095.49 KW/HR
(5) KW/LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KW/LINE INCREASE AT METER	0.00 KW/L

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.0738
(5) K FACTOR FOR T & D	1.6224

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON-RECURRING COST PER CUSTOMER	--- \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	--- \$/YR
(3) UTILITY COST ESCALATION RATE	--- %/CUST
(4) CUSTOMER EQUIPMENT COST	--- \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	--- %/CUST/YR
(6) CUSTOMER O & M COST	--- \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	--- %/CUST/YR
(8) INCREASED SUPPLY COSTS	--- %/CUST
(9) SUPPLY COSTS ESCALATION RATE	8.89 %
(10) UTILITY DISCOUNT RATE	8.48 %
(11) UTILITY AFUDC RATE	--- \$/CUST
(12) UTILITY NON-RECURRING REBATE/INCENTIVE	--- \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	--- %
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	--- %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.30 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.52 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %/YR
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O & M ESCALATION RATE	1.50 %/YR
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O & M ESCALATION RATE	2.30 %/YR
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KW/HR
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.30 %/YR
(15) GENERATOR CAPACITY FACTOR	0% (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.23 CENTS/YR-KW/HR (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %/YR

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	--- CENTS/KW/HR
(2) NON-FUEL COST ESCALATION RATE	--- %
(3) DEMAND CHARGE IN CUSTOMER BILL	--- \$/KW/HR
(4) DEMAND CHARGE ESCALATION RATE	--- %

CALCULATION OF K-FACTOR
 PROGRAM: BSHDD SELECTED REV_REQ
 PROGRAMNAME: Business Water Heating

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
YEAR	REG-YEAR RATEBASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEPRECCD TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESRVT FIXED CHARGES \$(000)	CUMULATIVE FW FIXED CHARGES \$(000)	REPLACEMENT COSTBASE FOR PROPERTY INSURANCE \$(000)
2019	6,299	196	0	440	290	106	37	246	0	1,315	1,315	1,315	6,144
2020	6,093	188	0	422	199	102	38	246	80	1,376	1,172	2,487	6,297
2021	5,727	178	0	400	197	97	39	246	68	1,225	1,034	3,521	6,455
2022	5,413	168	0	378	195	93	40	246	56	1,177	911	4,432	6,616
2023	5,111	159	0	357	193	88	41	246	46	1,129	803	5,236	6,781
2024	4,820	150	0	336	190	84	42	246	36	1,084	708	5,944	6,951
2025	4,538	141	0	317	187	80	43	246	27	1,040	624	6,568	7,125
2026	4,266	133	0	298	183	75	45	246	18	997	549	7,117	7,303
2027	4,002	124	0	279	179	71	46	246	17	956	484	7,600	7,485
2028	3,739	116	0	261	161	66	47	246	17	914	425	8,025	7,672
2029	3,476	108	0	243	159	62	48	246	17	873	373	8,398	7,864
2030	3,214	100	0	224	138	58	49	246	17	832	326	8,724	8,061
2031	2,951	92	0	206	127	53	50	246	17	791	285	9,009	8,262
2032	2,689	84	0	188	115	49	52	246	17	749	248	9,256	8,469
2033	2,426	75	0	169	104	44	53	246	17	708	215	9,472	8,681
2034	2,163	67	0	151	92	40	54	246	17	667	186	9,658	8,898
2035	1,901	59	0	133	81	35	56	246	17	626	160	9,818	9,120
2036	1,638	51	0	114	69	31	57	246	17	585	138	9,956	9,348
2037	1,376	43	0	96	58	27	58	246	17	544	118	10,073	9,582
2038	1,113	35	0	78	46	22	60	246	17	503	109	10,173	9,821
2039	850	26	0	59	36	18	61	246	(35)	462	84	10,257	10,067
2040	639	20	0	45	28	13	63	246	(80)	429	72	10,329	10,319
2041	479	15	0	33	21	9	65	246	(80)	405	62	10,391	10,577
2042	320	10	0	22	14	4	66	246	(80)	377	53	10,444	10,841
2043	160	5	0	11	10	(0)	68	246	(80)	351	45	10,489	11,112

IN SERVICE COST (\$000)	6,144
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
DEPRECCD TAX RATE	33.57%
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.62%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	44%	7.03%
P/S	0%	0.00%
C/S	56%	12.50%

K-FACTOR = CPWFC / IN-SVC COST = 1.70738

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAMNAME: Business Water Heating

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION S(000)	ACCUMULATED BOOK DEPRECIATION S(000)	BOOK DEPRECIATION FOR DEFERRED TAX S(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX S(000)	DEFERRED TAX DUE TO DEPRECIATION S(000)	TOTAL EQUITY AFUDC S(000)	BOOK DEPR. RATE MINUS LIFE	(10)*(11) TAXRATE S(000)	SALVAGE TAXRATE S(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) S(000)	ACCUMULATED DEFERRED TAX S(000)
2019	3.23%	224	224	246	246	223	223	0	573	0	0	0	0	(153)
2020	7.22%	431	655	246	491	223	446	80	573	0	0	0	80	(73)
2021	6.88%	399	1,054	246	737	223	669	68	573	0	0	0	68	(7)
2022	6.18%	369	1,423	246	983	223	891	56	573	0	0	0	56	49
2023	5.73%	341	1,765	246	1,229	223	1,114	46	573	0	0	0	46	95
2024	5.29%	316	2,080	246	1,474	223	1,337	36	573	0	0	0	36	131
2025	4.89%	292	2,373	246	1,720	223	1,560	27	573	0	0	0	27	158
2026	4.52%	270	2,643	246	1,966	223	1,782	18	573	0	0	0	18	176
2027	4.40%	267	2,909	246	2,212	223	2,005	17	573	0	0	0	17	193
2028	4.40%	267	3,176	246	2,457	223	2,228	17	573	0	0	0	17	210
2029	4.46%	267	3,442	246	2,703	223	2,451	17	573	0	0	0	17	227
2030	4.46%	267	3,709	246	2,949	223	2,674	17	573	0	0	0	17	243
2031	4.46%	267	3,975	246	3,195	223	2,896	17	573	0	0	0	17	260
2032	4.46%	267	4,242	246	3,440	223	3,119	17	573	0	0	0	17	277
2033	4.46%	267	4,508	246	3,686	223	3,342	17	573	0	0	0	17	294
2034	4.46%	267	4,775	246	3,932	223	3,565	17	573	0	0	0	17	311
2035	4.46%	267	5,042	246	4,178	223	3,788	17	573	0	0	0	17	328
2036	4.46%	267	5,308	246	4,423	223	4,010	17	573	0	0	0	17	345
2037	4.46%	267	5,575	246	4,669	223	4,233	17	573	0	0	0	17	362
2038	4.46%	267	5,841	246	4,915	223	4,456	17	573	0	0	0	17	378
2039	2.23%	133	5,974	246	5,161	223	4,679	(33)	573	0	0	0	(33)	344
2040	0.00%	0	5,974	246	5,406	223	4,902	(38)	573	0	0	0	(38)	308
2041	0.00%	0	5,974	246	5,632	223	5,125	(38)	573	0	0	0	(38)	172
2042	0.00%	0	5,974	246	5,858	223	5,347	(38)	573	0	0	0	(38)	86
2043	0.00%	0	5,974	246	6,144	223	5,570	(38)	573	0	0	0	(38)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1.56)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	573
BOOK DEPR. RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE-BASE CALCULATION
 PROGRAM METHOD SELECTED: NEW_REQ
 PROGRAM NAME: Business Water Heritage

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE	(5a) ACCUMULATED DEPRECIATION	(5b) ACCUMULATED DEF TAXES	(6) BEGINNING YEAR RATE BASE	(7) ENDING-OF YEAR RATE BASE	(8) MID-YEAR RATE-BASE
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	3.75%	224	0	5,878	246	(15)	6,299	6,083	6,176
2020	7.22%	431	80	5,632	491	(7)	6,053	5,727	5,890
2021	6.68%	389	68	5,406	737	(7)	5,727	5,413	5,570
2022	6.18%	369	56	5,161	983	49	5,413	5,111	5,262
2023	5.71%	341	46	4,915	1,228	95	5,111	4,820	4,965
2024	5.29%	316	36	4,669	1,474	131	4,820	4,538	4,679
2025	4.89%	292	27	4,423	1,720	158	4,538	4,266	4,402
2026	4.52%	270	18	4,178	1,966	176	4,266	4,002	4,134
2027	4.16%	267	17	3,932	2,212	193	4,002	3,739	3,870
2028	4.46%	267	17	3,686	2,457	210	3,739	3,476	3,608
2029	4.16%	267	17	3,440	2,703	227	3,476	3,214	3,345
2030	4.46%	267	17	3,194	2,949	243	3,214	2,951	3,083
2031	4.46%	267	17	2,949	3,195	260	2,951	2,689	2,820
2032	4.46%	267	17	2,703	3,440	277	2,689	2,426	2,557
2033	4.46%	267	17	2,457	3,686	294	2,426	2,163	2,295
2034	4.46%	267	17	2,212	3,932	311	2,163	1,901	2,032
2035	4.46%	267	17	1,966	4,178	328	1,901	1,638	1,769
2036	4.46%	267	17	1,720	4,423	345	1,638	1,376	1,507
2037	4.46%	267	17	1,474	4,669	362	1,376	1,113	1,244
2038	4.46%	267	17	1,229	4,915	378	1,113	850	982
2039	2.23%	133	(35)	983	5,161	344	850	639	745
2040	0.00%	0	(86)	737	5,406	258	639	479	559
2041	0.00%	0	(86)	491	5,632	172	479	320	399
2042	0.00%	0	(86)	246	5,878	86	320	160	240
2043	0.00%	0	(86)	(0)	6,144	0	160	0	80

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/KW)	(7) CUMULATIVE AVERAGE SPENDING (\$/KW)
2009	-30	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.82
2014	-5	3.00%	1.159	1.90%	15.99	9.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.230	37.30%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	594.34
2018	-1	3.00%	1.305	10.44%	98.79	853.38

YEAR	NO. YEARS BEFORE IN-SERVICE	(3) CUMULATIVE SPENDING WITH AFUDC (\$/KW)	(3a)* DEBT AFUDC (\$/KW)	100.00%		(3b)* TOTAL AFUDC (\$/KW)	(3c)* CONSTRUCTION INTEREST (\$/KW)	(3d)* CUMULATIVE CPI (\$/KW)	(3e)* DEFERRED TAXES (\$/KW)	(3f)* CUMULATIVE DEFERRED TAXES (\$/KW)	(10) INCREMENTAL BOOK VALUE (\$/KW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
				(5) YEARLY TOTAL AFUDC (\$/KW)	(5b)* CUMULATIVE DEBT AFUDC (\$/KW)							
2009	-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2013	-6	0.02	0.02	0.02	0.02	0.04	0.04	(0.01)	(0.01)	1.29	1.29	
2014	-5	2.29	0.29	0.29	0.29	0.63	0.70	(0.14)	(0.13)	16.78	18.07	
2015	-4	37.37	1.18	1.49	3.22	4.06	3.35	(0.57)	(0.72)	42.83	60.90	
2016	-3	226.84	7.07	3.56	19.29	23.56	15.99	(3.41)	(4.13)	351.16	412.06	
2017	-2	622.20	19.46	28.01	53.10	76.45	43.47	(9.26)	(13.39)	473.37	885.43	
2018	-1	934.83	29.46	57.47	80.39	156.84	64.78	(13.63)	(27.02)	179.18	1,064.61	

	57.47	156.84	121.50	(27.02)	1,064.61																							
IN SERVICE YEAR 2019 PLANT COSTS 75,389,803 AFUDC RATE 8.48%	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">BOOK BASIS</th> <th style="text-align: center;">BOOK BASIS FOR DEB TAX</th> <th style="text-align: center;">TAX BASIS</th> </tr> </thead> <tbody> <tr> <td>CONSTRUCTION CASE</td> <td style="text-align: right;">5,239</td> <td style="text-align: right;">5,239</td> <td style="text-align: right;">5,239</td> </tr> <tr> <td>EQUITY AFUDC</td> <td style="text-align: right;">573</td> <td></td> <td></td> </tr> <tr> <td>DEBT AFUDC</td> <td style="text-align: right;">332</td> <td style="text-align: right;">332</td> <td></td> </tr> <tr> <td>CPI</td> <td></td> <td></td> <td style="text-align: right;">736</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right;">6,144</td> <td style="text-align: right;">5,570</td> <td style="text-align: right;">5,974</td> </tr> </tbody> </table>		BOOK BASIS	BOOK BASIS FOR DEB TAX	TAX BASIS	CONSTRUCTION CASE	5,239	5,239	5,239	EQUITY AFUDC	573			DEBT AFUDC	332	332		CPI			736	TOTAL	6,144	5,570	5,974			
	BOOK BASIS	BOOK BASIS FOR DEB TAX	TAX BASIS																									
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DEBT AFUDC	332	332																										
CPI			736																									
TOTAL	6,144	5,570	5,974																									

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM(METHOD SELECTED): REV_REQ
 PROGRAM NAME: Business Water Heating

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/kWh)	(5) AVOIDED MARGINAL FUEL COST (\$/kWh)	(6) INCREASED MARGINAL FUEL COST (\$/kWh)	(7) REPLACEMENT FUEL COST (\$/kWh)	(8) PROGRAM KW EFFECTIVENESS FACTOR	(9) PROGRAM KW EFFECTIVENESS FACTOR
2009	0	0	6.79	5.17	6.79	0.00	1.00	1.00
2010	465	465	6.41	6.72	8.91	0.00	1.00	1.00
2011	992	992	6.35	6.02	8.40	0.00	1.00	1.00
2012	1,570	1,570	6.43	6.68	8.37	0.00	1.00	1.00
2013	2,096	2,096	7.06	7.94	8.35	0.00	1.00	1.00
2014	3,377	3,377	7.53	7.69	8.62	0.00	1.00	1.00
2015	3,803	3,803	8.11	8.32	9.53	0.00	1.00	1.00
2016	4,062	4,062	9.00	9.33	11.45	0.00	1.00	1.00
2017	4,320	4,320	9.75	10.08	12.59	0.00	1.00	1.00
2018	4,579	4,579	10.32	10.88	13.42	0.00	1.00	1.00
2019	4,579	4,579	11.50	11.97	15.12	10.41	1.00	1.00
2020	4,579	4,579	12.08	12.60	15.76	10.50	1.00	1.00
2021	4,579	4,579	12.57	13.12	16.36	10.74	1.00	1.00
2022	4,579	4,579	13.06	13.62	16.96	10.81	1.00	1.00
2023	4,579	4,579	13.39	13.94	16.96	10.80	1.00	1.00
2024	4,579	4,579	13.95	14.49	17.62	10.84	1.00	1.00
2025	4,579	4,579	14.40	14.95	18.05	10.96	1.00	1.00
2026	4,579	4,579	14.70	15.22	18.15	11.05	1.00	1.00
2027	4,579	4,579	15.13	15.63	18.36	11.17	1.00	1.00
2028	4,579	4,579	15.60	16.08	18.71	11.36	1.00	1.00
2029	4,579	4,579	16.02	16.46	18.68	11.41	1.00	1.00
2030	4,579	4,579	16.82	16.94	19.10	11.59	1.00	1.00
2031	4,579	4,579	17.68	17.50	19.71	11.80	1.00	1.00
2032	4,579	4,579	17.66	17.66	19.50	11.88	1.00	1.00
2033	4,579	4,579	18.27	18.52	20.25	12.10	1.00	1.00
2034	4,579	4,579	18.73	18.87	20.00	12.14	1.00	1.00
2035	4,579	4,579	19.57	19.76	21.25	12.29	1.00	1.00
2036	4,579	4,579	20.40	20.56	22.27	12.53	1.00	1.00
2037	4,579	4,579	21.11	21.25	22.81	12.70	1.00	1.00
2038	4,579	4,579	22.02	22.17	23.74	13.04	1.00	1.00
2039	4,579	4,579	22.78	22.90	24.38	13.32	1.00	1.00
2040	4,579	4,579	23.59	23.69	24.94	13.44	1.00	1.00
2041	4,579	4,579	24.54	24.63	25.85	13.73	1.00	1.00
2042	4,579	4,579	25.50	25.60	26.77	14.10	1.00	1.00
2043	4,579	4,579	26.74	26.86	28.52	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Water Heating

(1) YEAR	(2) INCREASED SUPPLY COSTS \$(000)	(3) UTILITY PROGRAM COSTS \$(000)	(4) PARTICIPANT PROGRAM COSTS \$(000)	(5) OTHER COSTS \$(000)	(6) TOTAL COSTS \$(000)	(7) AVOIDED GENERAL BENEFITS \$(000)	(8) AVOIDED T&D BENEFITS \$(000)	(9) PROGRAM FUEL SAVINGS \$(000)	(10) OTHER BENEFITS \$(000)	(11) TOTAL BENEFITS \$(000)	(12) NET BENEFITS \$(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	(0)	(0)
2010	0	72	1,420	0	1,492	0	0	112	0	112	(1,379)	(1,379)
2011	0	84	1,494	0	1,578	0	26	345	1	372	(1,205)	(2,583)
2012	0	94	1,681	0	1,775	0	56	612	2	688	(1,186)	(3,769)
2013	0	186	3,796	0	3,982	0	93	1,088	108	1,299	(2,525)	(4,985)
2014	0	112	2,398	0	2,510	0	157	1,662	171	1,839	(935)	(5,920)
2015	0	75	1,332	0	1,407	0	195	2,131	204	2,530	1,123	(4,797)
2016	0	46	830	0	876	0	216	2,822	273	3,111	2,235	(2,562)
2017	0	48	350	0	398	0	227	3,819	320	4,139	2,667	(1,895)
2018	0	49	872	0	920	0	238	3,458	369	3,827	3,145	(570)
2019	0	0	0	0	0	1,580	243	3,919	347	4,266	6,094	2,351
2020	0	0	0	0	0	1,629	241	4,129	349	4,478	6,188	4,627
2021	0	0	0	0	0	1,409	234	4,296	375	4,671	6,516	6,891
2022	0	0	0	0	0	1,481	228	4,464	418	4,882	6,510	9,043
2023	0	0	0	0	0	1,426	221	4,565	442	5,007	6,654	11,054
2024	0	0	0	0	0	1,442	215	4,744	490	5,234	6,890	12,985
2025	0	63	1,130	0	1,194	1,439	208	4,893	535	5,428	7,075	14,421
2026	0	163	3,112	0	3,276	1,449	202	4,979	569	5,548	7,189	15,412
2027	0	136	2,454	0	2,590	1,461	195	5,110	608	5,718	7,374	16,449
2028	0	153	2,733	0	2,885	1,454	189	5,257	662	5,919	7,562	17,377
2029	0	291	5,732	0	6,023	1,492	183	5,377	737	6,114	7,789	17,695
2030	0	168	1,938	0	2,106	1,491	177	5,531	791	6,322	7,991	18,091
2031	0	67	1,291	0	1,358	1,480	170	5,719	861	6,580	8,224	18,729
2032	0	69	1,232	0	1,301	1,527	165	5,825	931	6,756	8,447	19,768
2033	0	71	1,262	0	1,333	1,523	159	6,022	982	7,004	8,697	20,762
2034	0	0	0	0	0	1,594	154	6,139	1,056	7,195	8,944	21,722
2035	0	0	0	0	0	1,618	150	6,432	1,143	7,575	9,226	22,787
2036	0	0	0	0	0	1,608	146	6,691	1,239	7,930	9,622	23,828
2037	0	0	0	0	0	1,637	143	6,915	1,331	8,246	10,026	24,779
2038	0	0	0	0	0	1,591	140	7,215	1,436	8,651	10,541	25,703
2039	0	0	0	0	0	1,563	137	7,449	1,546	9,095	10,695	26,582
2040	0	92	1,637	0	1,729	1,631	134	7,794	1,665	9,459	11,134	27,414
2041	0	175	3,234	0	3,409	1,635	132	8,018	1,789	9,807	11,546	28,085
2042	0	260	4,934	0	5,193	1,587	129	8,324	1,922	10,246	12,021	28,625
2043	0	221	3,958	0	4,179	1,591	126	8,737	2,190	10,927	12,447	29,037
2044	0	0	0	0	0	0	0	0	0	0	0	29,505
2045	0	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0	0
NDA	0	2,642	48,740	0	51,382	26,071	5,631	162,513	23,928	233,143	181,761	181,761
NPV	0	797	14,791	0	15,588	6,871	1,612	32,587	4,043	45,893	45,893	29,505

Discount Rate:
 Benefit/Cost Ratio (Col(12)/Col(6)) :

2.89 %

BUSINESS ON CALL

INPUT DATA - PART I CONTINUED
PROGRAM/METHOD SELECTED: KKV_REQ
PROGRAM NAME: Business On Call

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.85 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.14 KW
(3) KW LINE LOSS PERCENTAGE	8.66 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	2.65 KVA ****
(5) KW LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	1.46 KVA ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	33 YEARS
(4) K FACTOR FOR GENERATION	1.7078
(5) K FACTOR FOR T & D	1.6254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON-RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* INCREASED SUPPLY COSTS	*** \$/CUST/YR
* SUPPLY COSTS ESCALATION RATES	*** %**
* (8) UTILITY DISCOUNT RATE	8.89 %
* (9) UTILITY AFDIC RATE	8.88 %
* (10) UTILITY NON-RECURRING REBATE/INCENTIVE	*** \$/CUST
* (11) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
* (12) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2015-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.29 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.21 \$/KW
(6) BASE YEAR DISTRIBUTION COST	12.38 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	1.50 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.186 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$23 CENTS/PER.KWH** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW&D
(4) DEMAND CHARGE ESCALATION RATE	*** %

- SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2
 **** THIS IS A LOAD SHEDDING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHEDD AWAY FROM PEAKERS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK.

CALCULATION OF GEN-FACR
 PROGRAM(HELD) SELECTED REV_REQ
 PROGRAMNAME: Business On Call

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
YEAR	BUD-YEAR RATEBASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEFERRED \$(000)	TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	40,790	1,267	0	2,947	1,878	243		1,591	3	8,516	8,516	8,516	39,781
2020	39,196	1,218	0	2,735	1,299	639	249	1,591	321	8,283	7,288	16,104	40,775
2021	37,694	1,152	0	2,588	1,279	639	255	1,591	440	7,935	6,692	22,797	41,734
2022	35,053	1,089	0	2,446	1,264	691	261	1,591	366	7,619	5,911	28,698	42,839
2023	33,096	1,028	0	2,310	1,248	579	268	1,591	296	7,312	5,293	33,941	43,919
2024	31,209	969	0	2,178	1,233	544	275	1,591	232	7,018	4,835	38,485	45,008
2025	29,385	913	0	2,051	1,208	516	281	1,591	173	6,733	4,040	42,526	46,133
2026	27,621	858	0	1,928	1,186	487	288	1,591	118	6,456	3,357	46,083	47,287
2027	25,912	805	0	1,808	1,129	459	296	1,591	109	6,187	3,231	49,314	48,469
2028	24,211	752	0	1,690	1,045	430	303	1,591	109	5,920	2,751	51,966	49,681
2029	22,511	699	0	1,571	971	401	311	1,591	109	5,653	2,413	54,378	50,923
2030	20,810	646	0	1,452	896	372	318	1,591	109	5,386	2,111	56,499	52,196
2031	19,110	594	0	1,334	821	344	326	1,591	109	5,119	1,843	58,333	53,500
2032	17,409	541	0	1,215	747	315	335	1,591	109	4,852	1,604	59,937	54,838
2033	15,709	488	0	1,096	672	286	343	1,591	109	4,587	1,393	61,390	56,209
2034	14,008	435	0	978	598	258	351	1,591	109	4,320	1,205	62,534	57,614
2035	12,308	382	0	859	523	229	360	1,591	109	4,055	1,038	63,575	59,055
2036	10,607	330	0	740	449	200	369	1,591	109	3,789	891	64,464	60,531
2037	8,907	277	0	622	374	172	378	1,591	109	3,523	761	65,225	62,044
2038	7,206	224	0	503	300	143	388	1,591	109	3,258	646	65,871	63,585
2039	5,506	171	0	384	225	115	398	1,591	(224)	2,993	545	66,416	65,185
2040	4,105	129	0	265	151	86	408	1,591	(337)	2,727	465	66,881	66,815
2041	3,104	96	0	147	786	57	418	1,591	(337)	2,469	401	67,282	68,485
2042	2,069	64	0	28	740	29	428	1,591	(337)	2,241	344	67,626	70,197
2043	1,034	32	0	72	695	(0)	439	1,591	(337)	2,223	295	67,921	71,952

IN SERVICE COST (\$000)	39,781
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

SOURCE	WEIGHT	COST
DEBT	44%	7.03
PS	0%	0.00
CS	56%	12.50

X-FACTOR = CFWFC / IN-SVC COST = 1.70738

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM(METHOD) SELECTED: REV_REQ
 PROGRAM NAME: Business On Call

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (7)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.73%	1,451	1,451	1,591	1,591	1,443	1,443	3	3,713	0	0	0	3	(1,096)
2020	7.22%	2,793	4,245	1,591	3,182	1,443	2,885	321	3,713	0	0	0	321	(486)
2021	6.68%	2,383	6,628	1,591	4,774	1,443	4,328	440	3,713	0	0	0	440	(45)
2022	6.18%	2,091	8,719	1,591	6,365	1,443	5,771	366	3,713	0	0	0	366	320
2023	5.71%	2,210	11,427	1,591	7,956	1,443	7,213	296	3,713	0	0	0	296	616
2024	5.29%	2,044	13,471	1,591	9,547	1,443	8,636	232	3,713	0	0	0	232	848
2025	4.89%	1,891	15,362	1,591	11,139	1,443	10,099	173	3,713	0	0	0	173	1,021
2026	4.52%	1,749	17,112	1,591	12,730	1,443	11,592	118	3,713	0	0	0	118	1,139
2027	4.48%	1,726	18,838	1,591	14,321	1,443	12,984	109	3,713	0	0	0	109	1,248
2028	4.46%	1,726	20,563	1,591	15,913	1,443	14,427	109	3,713	0	0	0	109	1,356
2029	4.46%	1,726	22,289	1,591	17,503	1,443	15,870	109	3,713	0	0	0	109	1,467
2030	4.46%	1,726	24,015	1,591	19,095	1,443	17,312	109	3,713	0	0	0	109	1,576
2031	4.46%	1,726	25,741	1,591	20,686	1,443	18,755	109	3,713	0	0	0	109	1,685
2032	4.46%	1,726	27,467	1,591	22,277	1,443	20,198	109	3,713	0	0	0	109	1,795
2033	4.46%	1,726	29,193	1,591	23,868	1,443	21,640	109	3,713	0	0	0	109	1,904
2034	4.46%	1,726	30,919	1,591	25,460	1,443	23,083	109	3,713	0	0	0	109	2,013
2035	4.46%	1,726	32,645	1,591	27,051	1,443	24,526	109	3,713	0	0	0	109	2,122
2036	4.46%	1,726	34,371	1,591	28,642	1,443	25,969	109	3,713	0	0	0	109	2,232
2037	4.46%	1,726	36,097	1,591	30,233	1,443	27,411	109	3,713	0	0	0	109	2,341
2038	4.46%	1,726	37,823	1,591	31,824	1,443	28,854	109	3,713	0	0	0	109	2,450
2039	2.23%	863	38,686	1,591	33,416	1,443	30,297	(224)	3,713	0	0	0	(224)	2,227
2040	0.00%	0	38,686	1,591	35,007	1,443	31,739	(537)	3,713	0	0	0	(537)	1,670
2041	0.00%	0	38,686	1,591	36,598	1,443	33,182	(537)	3,713	0	0	0	(537)	1,113
2042	0.00%	0	38,686	1,591	38,189	1,443	34,625	(537)	3,713	0	0	0	(537)	557
2043	0.00%	0	38,686	1,591	39,781	1,443	36,067	(537)	3,713	0	0	0	(537)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,009)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,713
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEPRECIATION TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business On Coal

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEPRECIATED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(6)* ACCUMULATED DEPRECIATION \$(000)	(7)* ACCUMULATED DEP TAXES \$(000)	(8) BEGINNING YEAR RATE BASE \$(000)	(9) ENDING OF YEAR RATE BASE \$(000)	(10) MID-YEAR RATE BASE \$(000)
2019	2.75%	1,451	3	38,189	1,591	(1,009)	40,790	39,196	39,993
2020	2.25%	2,793	521	36,398	3,182	(486)	38,196	37,084	38,140
2021	6.00%	2,583	440	33,007	4,774	(46)	37,084	35,053	36,068
2022	6.10%	2,391	366	33,416	6,365	328	35,053	33,096	34,074
2023	5.75%	2,210	296	31,824	7,956	616	33,096	31,209	32,152
2024	5.25%	2,044	232	30,233	9,547	948	31,209	29,385	30,597
2025	4.80%	1,891	173	28,642	11,139	1,021	29,385	27,621	28,903
2026	4.50%	1,749	118	27,051	12,730	1,139	27,621	25,912	26,766
2027	4.40%	1,726	109	25,460	14,321	1,248	25,912	24,211	25,061
2028	4.40%	1,726	109	23,868	15,912	1,358	24,211	22,511	23,361
2029	4.40%	1,726	109	22,277	17,503	1,467	22,511	20,810	21,660
2030	4.40%	1,726	109	20,686	19,095	1,576	20,810	19,110	19,960
2031	4.40%	1,726	109	19,095	20,686	1,685	19,110	17,409	18,260
2032	4.40%	1,726	109	17,503	22,277	1,795	17,409	15,709	16,560
2033	4.40%	1,726	109	15,912	23,868	1,904	15,709	14,008	14,860
2034	4.40%	1,726	109	14,321	25,460	2,013	14,008	12,308	13,160
2035	4.40%	1,726	109	12,730	27,051	2,122	12,308	10,607	11,460
2036	4.40%	1,726	109	11,139	28,642	2,232	10,607	8,907	9,760
2037	4.40%	1,726	109	9,547	30,233	2,341	8,907	7,206	8,060
2038	4.40%	1,726	109	7,956	31,824	2,450	7,206	5,506	6,360
2039	2.25%	503	(224)	6,365	33,416	2,227	5,506	4,138	4,822
2040	0.00%	0	(537)	4,774	35,007	1,670	4,138	3,104	3,621
2041	0.00%	0	(537)	3,182	36,598	1,113	3,104	2,069	2,586
2042	0.00%	0	(537)	1,591	38,189	537	2,069	1,034	1,582
2043	0.00%	0	(537)	(0)	39,781	0	1,034	0	517

* Columns not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (\$K)	(6) ANNUAL SPENDING (\$K/W)	(7) CUMULATIVE AVERAGE SPENDING (\$K/W)
2009	-10	3.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.62
2014	-5	3.00%	1.159	1.90%	15.99	9.24
2015	-4	3.00%	1.194	4.57%	30.61	37.03
2016	-3	3.00%	1.230	37.20%	231.67	222.77
2017	-2	3.00%	1.267	45.74%	420.27	398.84
2018	-1	3.00%	1.305	10.44%	98.79	438.38

100.00% 907.77

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(9) CUMULATIVE SPENDING WITH AFUDC (\$K/W)	(10)* DEBT AFUDC (\$K/W)	(11)* CUMULATIVE DEBT AFUDC (\$K/W)	(12) YEARLY TOTAL AFUDC (\$K/W)	(13)* CUMULATIVE TOTAL AFUDC (\$K/W)	(14)* CONSTRUCTION PERIOD INTEREST (\$K/W)	(15)* CUMULATIVE CPI (\$K/W)	(16)* DEFERRED TAXES (\$K/W)	(17)* CUMULATIVE DEFERRED TAXES (\$K/W)	(18) INCREMENTAL YEAR-END BOOK VALUE (\$K/W)	(19) CUMULATIVE YEAR-END BOOK VALUE (\$K/W)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.02	0.02	0.65	0.65	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.29	0.30	5.79	6.34	4.63	0.78	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.66	2.65	3.85	(0.57)	(0.72)	42.83	60.90
2016	-3	226.84	7.07	8.56	19.29	23.36	15.50	19.25	(1.41)	(4.13)	351.16	412.06
2017	-2	622.20	19.46	28.01	35.10	76.45	43.47	62.72	(3.36)	(13.39)	473.37	885.43
2018	-1	594.83	29.46	57.47	80.39	156.84	64.78	127.50	(13.63)	(27.02)	179.33	1,064.61

57.47

156.34

197.50

(27.02)

1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,803
AFUDC RATE	3.48%

	BOOK BASIS	BOOK BASIS FOR DEB TAX	TAC BASIS
CONSTRUCTION CASE	33,920	33,920	33,920
EQUITY AFUDC	3,715		
DEBT AFUDC	2,147	2,147	
CPI			4,764
TOTAL	39,781	36,067	38,684

* Column not specified in workbook

RAISE IMPACT TEST
PROGRAM/METHOD SELECTED: REV_REQ
PROGRAM NAME: Business On Call

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	34	34	0	0	34	1	0	0	0	1	(48)	(48)
2011	0	249	192	1	0	442	179	0	0	0	180	(257)	(257)
2012	0	422	329	1	0	753	3	0	0	0	361	(392)	(645)
2013	0	572	448	2	0	1,022	2	0	0	0	533	(489)	(978)
2014	0	729	576	2	0	1,307	3	0	0	0	734	(557)	(1,535)
2015	0	897	704	3	0	1,604	5	0	0	0	917	(687)	(2,222)
2016	0	894	832	3	0	1,729	6	1,029	0	1	1,100	(629)	(2,851)
2017	0	933	960	4	0	1,917	8	1,274	0	1	1,284	(633)	(3,484)
2018	0	1,016	1,088	5	0	2,107	8	1,459	0	1	1,469	(684)	(4,168)
2019	0	973	1,132	4	0	2,109	10,245	1,629	0	(436)	11,438	9,328	1,281
2020	0	835	1,132	5	0	1,972	9,322	1,533	0	(638)	10,467	8,477	4,604
2021	0	699	1,132	5	0	1,836	9,140	1,537	0	(706)	9,971	8,115	10,729
2022	0	571	1,132	5	0	1,728	9,086	1,435	0	(816)	9,765	6,435	17,164
2023	0	450	1,132	5	0	1,607	8,247	1,430	0	(898)	9,797	5,191	22,355
2024	0	392	1,132	5	0	1,549	7,549	1,408	0	(1,023)	9,735	3,185	25,540
2025	0	402	1,132	5	0	1,539	6,932	1,367	0	(1,169)	9,533	7,974	27,514
2026	0	412	1,132	6	0	1,570	6,396	1,326	0	(1,288)	9,403	7,894	29,408
2027	0	422	1,132	6	0	1,586	5,871	1,286	0	(1,416)	9,243	7,703	31,111
2028	0	433	1,132	6	0	1,591	5,427	1,245	0	(1,539)	9,134	7,543	32,774
2029	0	444	1,132	6	0	1,602	5,078	1,205	0	(1,729)	9,149	7,547	34,221
2030	0	455	1,132	7	0	1,613	4,671	1,165	0	(1,912)	9,255	7,512	35,733
2031	0	466	1,132	7	0	1,625	4,299	1,126	0	(2,071)	9,354	7,029	37,762
2032	0	478	1,132	7	0	1,637	3,959	1,088	0	(2,258)	9,730	7,022	39,784
2033	0	490	1,132	8	0	1,650	3,676	1,053	0	(2,694)	9,305	6,655	41,129
2034	0	502	1,132	8	0	1,662	3,441	1,020	0	(2,803)	9,402	6,800	42,574
2035	0	515	1,132	9	0	1,675	3,264	990	0	(3,149)	9,332	6,657	43,912
2036	0	528	1,132	9	0	1,689	3,134	962	0	(3,436)	9,213	6,534	45,228
2037	0	541	1,132	10	0	1,702	3,016	937	0	(3,717)	9,077	6,215	46,523
2038	0	554	1,132	10	0	1,716	2,911	915	0	(4,026)	9,009	5,489	47,786
2039	0	568	1,132	11	0	1,731	2,813	896	0	(4,373)	8,938	4,928	49,014
2040	0	582	1,132	12	0	1,746	2,724	878	0	(4,725)	8,730	4,984	50,208
2041	0	597	1,132	12	0	1,761	2,644	862	0	(5,082)	8,549	4,488	51,391
2042	0	612	1,132	13	0	1,776	2,572	846	0	(5,488)	8,650	4,274	52,049
2043	0	627	1,132	13	0	1,792	2,504	830	0	(5,957)	8,667	4,274	52,285
2044	0	0	0	0	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0	0	0
NCR	0	19,291	33,981	212	0	53,484	246,929	35,537	0	(62,066)	220,590	167,035	
NPV	0	6,066	8,343	40	0	14,449	44,576	9,306	0	(3,649)	44,734	32,285	

Discount Rate
Benefit/Cost Ratio (Col(12) / Col(7)) :

3.89 %
3.23

COMERCIAL/INDUSTRIAL DEMAND REDUCTION

INPUT DATA - PART I CONTINUED
PROGRAM METHOD SELECTED: REV_RBO
PROGRAM NAME: Commercial/Industrial Demand Reduction

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	1.00 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.54 KW
(3) KW LINE LOSS PERCENTAGE	2.65 %
(4) GENERATOR KW REDUCTION PER CUSTOMER	8.59 KW ^{***}
(5) KW LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIFLIER	1.00
(7) CUSTOMER KW INCREASE AT METER	2.40 KW ^{****}

II. ECONOMIC LIFE & X FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) X FACTOR FOR GENERATION	1.70738
(5) X FACTOR FOR T & D	1.63254

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATE	*** %
(10) UTILITY DISCOUNT RATE	8.80 %
(11) UTILITY AFUDC RATE	3.48 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED GENERATING COST	725.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.50 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	97.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	\$ 29 CENTS PER KW-HR** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KWH
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KWHD
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)

*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

**** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWHR/COST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWHR/COST THAT IS PAID BACK DURING OFF-PEAK.

CALCULATION OF KWIK-FACTOR
PROGRAMMED TO SELECTED REV REQ
PROGRAM NAME: Commercial/Industrial Demand Reduction

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	REG-YEAR RATE BASE \$ (000)	DEBT \$ (000)	PREFERRED STOCK \$ (000)	COMMON EQUITY \$ (000)	INCOME TAXES \$ (000)	PROPERTY TAX \$ (000)	PROPERTY INSURANCE \$ (000)	DEPREC. \$ (000)	DEPRECC. TAXES \$ (000)	TOTAL FIXED CHARGES \$ (000)	PRESENT WORTH FIXED CHARGES \$ (000)	CUMULATIVE PW FIXED CHARGES \$ (000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$ (000)
2019	170,578	5,311	0	11,502	7,871	2,881	1,017	6,670	15	25,696	25,696	25,696	166,787
2020	164,295	5,104	0	11,466	7,489	2,761	1,043	6,670	2,183	24,635	31,808	67,504	170,915
2021	155,443	4,829	0	10,848	5,360	2,641	1,069	6,670	1,844	23,260	28,652	95,557	171,188
2022	146,929	4,564	0	10,254	4,298	2,521	1,095	6,670	1,523	21,935	24,737	120,293	171,548
2023	138,727	4,309	0	9,681	3,230	2,401	1,125	6,670	1,241	20,655	21,808	142,101	171,889
2024	130,816	4,064	0	9,129	2,151	2,281	1,151	6,670	973	19,419	19,520	161,921	172,189
2025	123,173	3,826	0	8,596	1,065	2,161	1,180	6,670	725	18,222	16,933	178,254	172,489
2026	115,778	3,597	0	8,086	4,969	2,041	1,209	6,670	496	17,062	14,912	193,165	172,789
2027	108,613	3,374	0	7,580	4,639	1,921	1,239	6,670	438	15,915	13,524	206,290	173,089
2028	101,485	3,153	0	7,082	4,308	1,801	1,270	6,670	438	14,815	11,933	217,822	173,389
2029	94,357	2,931	0	6,585	4,068	1,681	1,302	6,670	438	13,815	10,114	227,236	173,689
2030	87,229	2,710	0	6,088	3,756	1,561	1,333	6,670	438	12,815	8,830	236,290	173,989
2031	80,102	2,488	0	5,591	3,443	1,441	1,363	6,670	438	11,815	7,725	244,210	174,289
2032	72,974	2,267	0	5,093	3,132	1,321	1,402	6,670	438	10,815	6,725	251,235	174,589
2033	65,846	2,045	0	4,595	2,819	1,201	1,437	6,670	438	9,815	5,830	257,873	174,889
2034	58,718	1,824	0	4,098	2,507	1,081	1,473	6,670	438	8,815	4,935	264,215	175,189
2035	51,590	1,603	0	3,600	2,194	961	1,510	6,670	438	7,815	4,135	270,210	175,489
2036	44,462	1,381	0	3,103	1,882	841	1,548	6,670	438	6,815	3,335	275,810	175,789
2037	37,335	1,160	0	2,606	1,569	721	1,586	6,670	438	5,815	2,535	281,110	176,089
2038	30,207	938	0	2,109	1,257	601	1,625	6,670	438	4,815	1,735	286,110	176,389
2039	23,079	717	0	1,611	944	481	1,667	6,670	438	3,815	935	290,810	176,689
2040	15,951	496	0	1,113	632	361	1,708	6,670	438	2,815	335	295,210	176,989
2041	8,823	275	0	615	323	241	1,751	6,670	438	1,815	135	299,310	177,289
2042	1,695	54	0	117	166	121	1,795	6,670	438	815	45	303,110	177,589
2043	0	0	0	0	0	0	1,840	6,670	438	315	5	306,610	177,889

IN SERVICE COST (\$000)	166,787
IN SERVICE YEAR	2019
BOOKLINE (YRS)	25
DEPR. TAX RATE	38.57%
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.61%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	49%	7.03%
P/S	0%	0.00%
CS	50%	12.50%

K-FACTOR = CPWFC / IN-SVC COST = 1.76738

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM/METHOD SELECTED: REV_REQ
 PROGRAMNAME: Commercial/Industrial Demand Reduct

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS ALBRE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX \$(9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	6,081	6,081	6,670	6,670	6,047	6,047	13	15,564	0	0	0	13	(4,319)
2020	7.22%	11,796	17,786	6,670	23,340	6,047	12,095	2,183	15,564	0	0	0	2,183	(2,036)
2021	6.68%	10,827	28,613	6,670	29,910	6,047	18,142	1,844	15,564	0	0	0	1,844	(152)
2022	6.18%	10,021	38,634	6,670	26,679	6,047	24,189	1,535	15,564	0	0	0	1,535	1,341
2023	5.71%	9,264	47,898	6,670	33,349	6,047	30,237	1,241	15,564	0	0	0	1,241	2,582
2024	5.29%	8,571	56,468	6,670	40,019	6,047	36,284	973	15,564	0	0	0	973	3,555
2025	4.89%	7,926	64,394	6,670	46,689	6,047	42,331	725	15,564	0	0	0	725	4,279
2026	4.52%	7,333	71,726	6,670	53,259	6,047	48,378	496	15,564	0	0	0	496	4,775
2027	4.40%	7,235	78,962	6,670	60,029	6,047	54,426	458	15,564	0	0	0	458	5,233
2028	4.40%	7,234	86,195	6,670	66,699	6,047	60,473	458	15,564	0	0	0	458	5,691
2029	4.40%	7,235	93,430	6,670	73,369	6,047	66,520	458	15,564	0	0	0	458	6,149
2030	4.40%	7,234	100,664	6,670	80,038	6,047	72,568	458	15,564	0	0	0	458	6,607
2031	4.40%	7,235	107,899	6,670	86,708	6,047	78,615	458	15,564	0	0	0	458	7,065
2032	4.40%	7,234	115,133	6,670	93,378	6,047	84,662	458	15,564	0	0	0	458	7,523
2033	4.40%	7,235	122,368	6,670	100,048	6,047	90,710	458	15,564	0	0	0	458	7,981
2034	4.40%	7,234	129,602	6,670	106,718	6,047	96,757	458	15,564	0	0	0	458	8,438
2035	4.40%	7,235	136,837	6,670	113,388	6,047	102,804	458	15,564	0	0	0	458	8,897
2036	4.40%	7,234	144,071	6,670	120,058	6,047	108,852	458	15,564	0	0	0	458	9,354
2037	4.40%	7,235	151,306	6,670	126,728	6,047	114,899	458	15,564	0	0	0	458	9,813
2038	4.40%	7,234	158,539	6,670	133,397	6,047	120,946	458	15,564	0	0	0	458	10,270
2039	2.23%	3,618	162,157	6,670	140,067	6,047	126,993	(937)	15,564	0	0	0	(937)	9,333
2040	0.00%	0	162,157	6,670	146,737	6,047	133,041	(2,333)	15,564	0	0	0	(2,333)	7,000
2041	0.00%	0	162,157	6,670	153,407	6,047	139,088	(2,333)	15,564	0	0	0	(2,333)	4,667
2042	0.00%	0	162,157	6,670	160,077	6,047	145,135	(2,333)	15,564	0	0	0	(2,333)	2,335
2043	0.00%	0	162,157	6,670	166,747	6,047	151,183	(2,333)	15,564	0	0	0	(2,333)	2

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(4,313)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	15,564
BOOK DEPR RATE - USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_XBQ
 PROGRAM NAME: Commercial/Industrial Demand Reduction

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2010	3.75%	6,051	13	150,877	6,670	(4,219)	170,978	164,295	157,637
2020	7.22%	11,786	2,183	133,407	13,340	(2,036)	164,295	155,440	149,669
2021	6.68%	10,827	1,844	146,737	20,010	(192)	156,443	146,929	141,186
2022	6.18%	10,021	1,433	149,967	26,679	(341)	146,929	138,727	142,828
2023	5.71%	9,264	1,041	133,397	33,349	2,582	138,727	130,816	134,771
2024	5.29%	8,570	973	126,728	40,019	1,565	130,816	123,173	126,994
2025	4.89%	7,926	723	120,658	46,689	4,229	123,173	115,778	119,476
2026	4.52%	7,333	496	113,388	53,359	4,775	115,778	108,613	112,196
2027	4.40%	7,235	458	106,718	60,029	5,220	108,613	101,485	105,049
2028	4.40%	7,234	458	100,048	66,699	5,691	101,485	94,357	97,921
2029	4.40%	7,235	458	93,378	73,369	6,149	94,357	87,229	90,793
2030	4.40%	7,234	458	86,708	80,038	6,607	87,229	80,102	83,665
2031	4.40%	7,235	458	80,038	86,708	7,065	80,102	72,974	76,538
2032	4.40%	7,234	458	73,369	93,378	7,523	72,974	65,846	69,410
2033	4.40%	7,235	458	66,699	100,048	7,981	65,846	58,718	62,282
2034	4.40%	7,234	458	60,029	106,718	8,438	58,718	51,590	55,154
2035	4.40%	7,235	458	53,359	113,388	8,897	51,590	44,462	48,026
2036	4.40%	7,234	458	46,689	120,058	9,354	44,462	37,333	40,899
2037	4.40%	7,235	458	40,019	126,728	9,812	37,333	30,207	33,771
2038	4.40%	7,234	458	33,349	133,397	10,270	30,207	23,079	26,643
2039	2.23%	1,618	(937)	26,679	140,067	9,333	23,079	17,347	20,213
2040	0.00%	0	(2,333)	20,010	146,737	7,000	17,347	13,009	15,178
2041	0.00%	0	(2,333)	13,340	153,407	4,667	13,009	8,672	10,841
2042	0.00%	0	(2,333)	6,670	160,077	2,335	8,672	4,335	6,504
2043	0.00%	0	(2,333)	0	166,747	2	4,335	-2	2,167

* Column not specified in worksheet

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$k/W)	(7) CUMULATIVE AVERAGE SPENDING (\$k/W)
2009	-10	0.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.15%	1.24	0.62
2014	-5	3.00%	1.159	1.90%	15.99	9.24
2015	-4	3.00%	1.194	4.57%	39.61	37.60
2016	-3	3.00%	1.230	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.76%	420.27	394.84
2018	-1	3.00%	1.305	18.44%	58.73	338.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$k/W)	(8a)* DEBT AFUDC (\$k/W)	100.00%		(9a)* CUMULATIVE TOTAL AFUDC (\$k/W)	(9b)* CONSTRUCTION INTEREST (\$k/W)	(9c)* CUMULATIVE CFI (\$k/W)	(9d)* DEFERRED TAXES (\$k/W)	(9e)* DEFERRED TAXES (\$k/W)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$k/W)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$k/W)
				(9) YEARLY TOTAL AFUDC (\$k/W)	(9f) TOTAL AFUDC (\$k/W)							
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.62	0.62	0.65	0.04	0.04	0.04	(0.01)	(0.01)	1.29	1.29
2014	-5	9.29	0.28	0.30	0.79	0.94	0.65	0.70	(0.14)	(0.15)	16.78	18.07
2015	-4	37.87	1.18	1.49	3.22	4.06	2.65	3.35	(0.57)	(0.72)	42.83	60.90
2016	-3	226.34	7.07	3.55	19.29	23.36	15.90	19.25	(3.41)	(4.13)	351.16	412.06
2017	-2	622.20	19.46	28.81	53.10	76.45	43.47	62.72	(9.26)	(13.39)	473.37	885.43
2018	-1	534.53	23.46	37.47	90.39	156.84	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,855
AFUDC RATE	8.48%

	57.47	156.84	127.50	(27.02)	1,064.61
	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS		
CONSTRUCTION CASH	142,182	142,182	142,182		
EQUITY AFUDC	15,564				
DEBT AFUDC	9,991	9,991			
CFI			19,970		
TOTAL	166,747	151,183	162,152		

* Column not specified in workbook

RATE IMPACT TEST
 PROGRAM/METHOD SELECTED: REV_ERQ
 PROGRAM NAME: Commercial/Industrial Demand Reduction

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED I&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	19	366	4	0	389	16	0	0	0	16	(379)	(346)
2011	0	38	1,096	13	0	1,154	18	0	0	0	18	(1,135)	(1,302)
2012	0	59	1,830	23	0	1,912	41	0	0	1	41	(1,871)	(2,751)
2013	0	81	2,562	34	0	2,677	40	0	0	4	44	(2,634)	(4,625)
2014	0	103	3,292	47	0	3,443	35	0	0	5	40	(3,389)	(6,835)
2015	0	127	4,026	60	0	4,207	45	0	0	7	52	(4,154)	(9,303)
2016	0	151	4,747	74	0	4,974	105	0	0	9	114	(4,859)	(11,981)
2017	0	178	5,475	89	0	5,742	132	0	0	12	144	(5,598)	(14,812)
2018	0	205	6,203	105	0	6,513	162	0	0	15	177	(6,336)	(17,763)
2019	0	210	6,567	117	0	6,894	43,112	0	0	(1,816)	41,296	34,462	(3,089)
2020	0	215	6,567	119	0	6,901	48,074	0	0	(2,699)	37,414	34,715	2,921
2021	0	221	6,567	123	0	6,910	38,484	0	0	(2,944)	35,540	28,630	15,188
2022	0	226	6,567	128	0	6,921	38,273	0	0	(3,404)	34,869	27,948	28,428
2023	0	232	6,567	133	0	6,931	38,291	0	0	(3,748)	34,543	28,242	37,063
2024	0	238	6,567	140	0	6,944	39,367	0	0	(4,278)	35,089	28,133	44,833
2025	0	244	6,567	147	0	6,938	39,293	0	0	(4,866)	34,427	27,469	51,888
2026	0	250	6,567	155	0	6,971	39,561	0	0	(5,254)	34,308	27,337	58,317
2027	0	256	6,567	165	0	6,987	39,884	0	0	(5,945)	33,939	26,592	64,147
2028	0	262	6,567	173	0	7,001	39,765	0	0	(6,626)	33,139	26,277	69,339
2029	0	269	6,567	182	0	7,017	40,730	0	0	(7,221)	32,909	26,492	74,184
2030	0	276	6,567	192	0	7,035	40,729	0	0	(7,984)	32,745	25,711	78,687
2031	0	283	6,567	203	0	7,073	40,433	0	0	(8,649)	31,784	24,792	82,287
2032	0	290	6,567	216	0	7,102	41,091	0	0	(9,432)	30,258	25,186	85,841
2033	0	297	6,567	238	0	7,114	43,227	0	0	(10,963)	30,637	23,335	88,891
2034	0	304	6,567	243	0	7,134	44,391	0	0	(12,089)	31,403	24,364	91,786
2035	0	312	6,567	255	0	7,162	43,294	0	0	(13,158)	31,033	23,899	94,339
2036	0	320	6,567	276	0	7,186	43,483	0	0	(14,351)	29,444	22,282	96,635
2037	0	328	6,567	306	0	7,233	42,744	0	0	(15,251)	28,292	22,016	98,665
2038	0	336	6,567	322	0	7,239	44,290	0	0	(16,825)	26,465	19,449	100,332
2039	0	343	6,567	339	0	7,288	44,171	0	0	(18,284)	24,429	17,226	101,631
2040	0	352	6,567	359	0	7,318	43,417	0	0	(21,263)	22,154	14,854	102,906
2041	0	371	6,567	404	0	7,350	43,527	0	0	(21,257)	22,310	14,990	104,894
2042	0	380	6,567	0	0	0	0	0	0	0	0	0	105,631
2043	0	0	0	0	0	0	0	0	0	0	0	0	0
2044	0	0	0	0	0	0	0	0	0	0	0	0	0
2045	0	0	0	0	0	0	0	0	0	0	0	0	0
2046	0	0	0	0	0	0	0	0	0	0	0	0	0
2047	0	0	0	0	0	0	0	0	0	0	0	0	0
2048	0	0	0	0	0	0	0	0	0	0	0	0	0
2049	0	0	0	0	0	0	0	0	0	0	0	0	0
2050	0	0	0	0	0	0	0	0	0	0	0	0	0
2051	0	0	0	0	0	0	0	0	0	0	0	0	0
2052	0	0	0	0	0	0	0	0	0	0	0	0	0
2053	0	0	0	0	0	0	0	0	0	0	0	0	0
2054	0	0	0	0	0	0	0	0	0	0	0	0	0
2055	0	0	0	0	0	0	0	0	0	0	0	0	0
2056	0	0	0	0	0	0	0	0	0	0	0	0	0
2057	0	0	0	0	0	0	0	0	0	0	0	0	0
2058	0	0	0	0	0	0	0	0	0	0	0	0	0
2059	0	0	0	0	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0	0	0	0	0
2065	0	0	0	0	0	0	0	0	0	0	0	0	0
2066	0	0	0	0	0	0	0	0	0	0	0	0	0
2067	0	0	0	0	0	0	0	0	0	0	0	0	0
2068	0	0	0	0	0	0	0	0	0	0	0	0	0
2069	0	0	0	0	0	0	0	0	0	0	0	0	0
2070	0	0	0	0	0	0	0	0	0	0	0	0	0
2071	0	0	0	0	0	0	0	0	0	0	0	0	0
2072	0	0	0	0	0	0	0	0	0	0	0	0	0
2073	0	0	0	0	0	0	0	0	0	0	0	0	0
2074	0	0	0	0	0	0	0	0	0	0	0	0	0
2075	0	0	0	0	0	0	0	0	0	0	0	0	0
2076	0	0	0	0	0	0	0	0	0	0	0	0	0
2077	0	0	0	0	0	0	0	0	0	0	0	0	0
2078	0	0	0	0	0	0	0	0	0	0	0	0	0
2079	0	0	0	0	0	0	0	0	0	0	0	0	0
2080	0	0	0	0	0	0	0	0	0	0	0	0	0
2081	0	0	0	0	0	0	0	0	0	0	0	0	0
2082	0	0	0	0	0	0	0	0	0	0	0	0	0
2083	0	0	0	0	0	0	0	0	0	0	0	0	0
2084	0	0	0	0	0	0	0	0	0	0	0	0	0
2085	0	0	0	0	0	0	0	0	0	0	0	0	0
2086	0	0	0	0	0	0	0	0	0	0	0	0	0
2087	0	0	0	0	0	0	0	0	0	0	0	0	0
2088	0	0	0	0	0	0	0	0	0	0	0	0	0
2089	0	0	0	0	0	0	0	0	0	0	0	0	0
2090	0	0	0	0	0	0	0	0	0	0	0	0	0
2091	0	0	0	0	0	0	0	0	0	0	0	0	0
2092	0	0	0	0	0	0	0	0	0	0	0	0	0
2093	0	0	0	0	0	0	0	0	0	0	0	0	0
2094	0	0	0	0	0	0	0	0	0	0	0	0	0
2095	0	0	0	0	0	0	0	0	0	0	0	0	0
2096	0	0	0	0	0	0	0	0	0	0	0	0	0
2097	0	0	0	0	0	0	0	0	0	0	0	0	0
2098	0	0	0	0	0	0	0	0	0	0	0	0	0
2099	0	0	0	0	0	0	0	0	0	0	0	0	0
2100	0	0	0	0	0	0	0	0	0	0	0	0	0
2101	0	0	0	0	0	0	0	0	0	0	0	0	0
2102	0	0	0	0	0	0	0	0	0	0	0	0	0
2103	0	0	0	0	0	0	0	0	0	0	0	0	0
2104	0	0	0	0	0	0	0	0	0	0	0	0	0
2105	0	0	0	0	0	0	0	0	0	0	0	0	0
2106	0	0	0	0	0	0	0	0	0	0	0	0	0
2107	0	0	0	0	0	0	0	0	0	0	0	0	0
2108	0	0	0	0	0	0	0	0	0	0	0	0	0
2109	0	0	0	0	0	0	0	0	0	0	0	0	0
2110	0	0	0	0	0	0	0	0	0	0	0	0	0
2111	0	0	0	0	0	0	0	0	0	0	0	0	0
2112	0	0	0	0	0	0	0	0	0	0	0	0	0
2113	0	0	0	0	0	0	0	0	0	0	0	0	0
2114	0	0	0	0	0	0	0	0	0	0	0	0	0
2115	0	0	0	0	0	0	0	0	0	0	0	0	0
2116	0	0	0	0	0	0	0	0	0	0	0	0	0
2117	0	0	0	0	0	0	0	0	0	0	0	0	0
2118	0	0	0	0	0	0	0	0	0	0	0	0	0
2119	0	0	0	0	0	0	0	0	0	0	0	0	0
2120	0	0	0	0	0	0	0	0	0	0	0	0	0
2121	0	0	0	0	0	0	0	0	0	0	0	0	0
2122	0	0	0	0	0	0	0	0	0	0	0	0	0
2123	0	0	0	0	0	0	0	0	0	0	0	0	0
2124	0	0	0	0	0	0	0	0	0	0	0	0	0
2125	0	0	0	0	0	0	0	0	0	0	0	0	0
2126	0	0	0	0	0								

BUSINESS MOTORS

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER	0.85 KW
(2) GENERATOR KW REDUCTION PER CUSTOMER	1.14 KW
(3) KW LINE LOSS PERCENTAGE	8.56 %
(4) GENERATOR KVA REDUCTION PER CUSTOMER	1.3247 KVA
(5) KVA LINE LOSS PERCENTAGE	6.90 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER KVA INCREASE AT METER	0.08 KVA

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	35 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.7735
(5) K FACTOR FOR T & D	1.5324

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	3.89 %
(11) UTILITY AFUD-C RATE	8.48 %
(12) UTILITY NONRECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

*** SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2009
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2012-2019
(4) BASE YEAR AVOIDED OPERATING COST	723.39 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	185.32 \$/KW
(6) BASE YEAR DISTRIBUTION COST	20.64 \$/KW
(7) GEN. TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	57.66 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %**
(10) TRANSMISSION FIXED O & M COST	2.82 \$/KW
(11) DISTRIBUTION FIXED O & M COST	1.01 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.106 CENTS/KVA
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.23 CENTS PER KWHR** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.70 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/KVA
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/KW/KO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* INPUT DATA - PART 1 CONTINUED
 PROGRAM/STATION SELECTED: REV_XBQ
 PROGRAM NAME: Business Metrics

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	4	5	0	9	15	4	34	0	39	
2003	4	5	0	9	14	9	30	0	39	
2004	4	6	0	10	84	25	36	0	96	
2005	4	6	0	10	128	37	102	0	142	
2006	5	6	0	11	177	51	108	0	166	
2007	5	6	0	11	232	68	115	0	183	
2008	5	6	0	11	290	80	118	0	194	
2009	5	6	0	11	351	99	122	0	203	
2010	0	0	0	0	397	98	0	0	495	
2011	0	0	0	0	401	96	0	0	497	
2012	0	0	0	0	415	94	0	0	509	
2013	0	0	0	0	435	93	0	0	528	
2014	0	0	0	0	433	94	0	0	527	
2015	0	0	0	0	481	95	0	0	576	
2016	5	5	0	10	578	92	0	0	675	
2017	6	5	0	11	535	93	121	0	751	
2018	6	6	0	12	573	93	130	0	796	
2019	6	6	0	12	603	95	139	0	837	
2020	6	6	0	12	628	95	148	0	871	
2021	7	6	0	13	678	96	156	0	930	
2022	7	6	0	13	717	97	164	0	978	
2023	7	6	0	13	789	99	171	0	1065	
2024	8	6	0	14	850	102	177	0	1129	
2025	0	0	0	0	867	103	0	0	970	
2026	0	0	0	0	915	101	0	0	1016	
2027	0	0	0	0	994	103	0	0	1097	
2028	0	0	0	0	1,054	105	0	0	1159	
2029	0	0	0	0	1,110	106	0	0	1,216	
2030	0	0	0	0	1,171	106	0	0	1,277	
2031	0	0	0	0	1,236	107	0	0	1,343	
2032	8	5	0	13	1,312	107	176	0	1,615	
2033	8	5	0	13	1,395	108	189	0	1,692	
2034	9	6	0	14	1,482	108	201	0	1,791	
2035	0	0	0	0	0	0	0	0	0	
2036	0	0	0	0	0	0	0	0	0	
2037	0	0	0	0	0	0	0	0	0	
2038	0	0	0	0	0	0	0	0	0	
2039	0	0	0	0	0	0	0	0	0	
2040	0	0	0	0	0	0	0	0	0	
2041	0	0	0	0	0	0	0	0	0	
2042	0	0	0	0	0	0	0	0	0	
2043	0	0	0	0	0	0	0	0	0	
2044	0	0	0	0	0	0	0	0	0	
2045	0	0	0	0	0	0	0	0	0	
2046	0	0	0	0	0	0	0	0	0	
2047	0	0	0	0	0	0	0	0	0	
2048	0	0	0	0	0	0	0	0	0	
2049	0	0	0	0	0	0	0	0	0	
2050	0	0	0	0	0	0	0	0	0	
2051	0	0	0	0	0	0	0	0	0	
2052	0	0	0	0	0	0	0	0	0	
2053	0	0	0	0	0	0	0	0	0	
2054	0	0	0	0	0	0	0	0	0	
2055	0	0	0	0	0	0	0	0	0	
2056	0	0	0	0	0	0	0	0	0	
2057	0	0	0	0	0	0	0	0	0	
2058	0	0	0	0	0	0	0	0	0	
2059	0	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	0	
2065	0	0	0	0	0	0	0	0	0	
2066	0	0	0	0	0	0	0	0	0	
2067	0	0	0	0	0	0	0	0	0	
2068	0	0	0	0	0	0	0	0	0	
2069	0	0	0	0	0	0	0	0	0	
2070	0	0	0	0	0	0	0	0	0	
2071	0	0	0	0	0	0	0	0	0	
2072	0	0	0	0	0	0	0	0	0	
2073	0	0	0	0	0	0	0	0	0	
2074	0	0	0	0	0	0	0	0	0	
2075	0	0	0	0	0	0	0	0	0	
2076	0	0	0	0	0	0	0	0	0	
2077	0	0	0	0	0	0	0	0	0	
2078	0	0	0	0	0	0	0	0	0	
2079	0	0	0	0	0	0	0	0	0	
2080	0	0	0	0	0	0	0	0	0	
2081	0	0	0	0	0	0	0	0	0	
2082	0	0	0	0	0	0	0	0	0	
2083	0	0	0	0	0	0	0	0	0	
2084	0	0	0	0	0	0	0	0	0	
2085	0	0	0	0	0	0	0	0	0	
2086	0	0	0	0	0	0	0	0	0	
2087	0	0	0	0	0	0	0	0	0	
2088	0	0	0	0	0	0	0	0	0	
2089	0	0	0	0	0	0	0	0	0	
2090	0	0	0	0	0	0	0	0	0	
2091	0	0	0	0	0	0	0	0	0	
2092	0	0	0	0	0	0	0	0	0	
2093	0	0	0	0	0	0	0	0	0	
2094	0	0	0	0	0	0	0	0	0	
2095	0	0	0	0	0	0	0	0	0	
2096	0	0	0	0	0	0	0	0	0	
2097	0	0	0	0	0	0	0	0	0	
2098	0	0	0	0	0	0	0	0	0	
2099	0	0	0	0	0	0	0	0	0	
2100	0	0	0	0	0	0	0	0	0	
NORM	112	108	0	220	24,312	2,855	2,605	0	2,605	
NPV	33	38	0	71	3,610	652	762	0	762	

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GENX-FACTOR
PROGRAM/METHOD SELECTED REV_REQ
PROGRAMNAME: Business Motors

YEAR	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	REG-YEAR RATEBASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL EDGED CHARGES \$(000)	PRESENT EDGED CHARGES \$(000)	CUMULATIVE PW EDGED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)	
2019	822	28	0	62	41	15	5	35	0	186	186	186	870	
2020	158	27	0	60	28	14	6	35	11	181	166	352	892	
2021	311	25	0	57	28	14	6	35	10	174	146	499	914	
2022	707	24	0	54	28	13	6	35	8	167	129	628	937	
2023	794	23	0	51	27	13	6	35	6	160	104	742	961	
2024	683	21	0	48	27	12	6	35	5	154	100	842	985	
2025	643	20	0	45	26	11	6	35	4	147	88	930	1,009	
2026	604	19	0	42	26	11	6	35	3	141	78	1,008	1,035	
2027	567	18	0	40	24	10	6	35	2	135	69	1,077	1,060	
2028	530	16	0	37	23	9	7	35	2	130	60	1,137	1,087	
2029	492	15	0	34	21	9	7	35	2	124	53	1,190	1,114	
2030	455	14	0	32	20	8	7	35	2	118	46	1,238	1,142	
2031	418	13	0	29	18	8	7	35	2	112	40	1,282	1,170	
2032	381	12	0	27	16	7	7	35	2	106	35	1,311	1,200	
2033	344	11	0	24	15	6	8	35	2	100	30	1,342	1,230	
2034	306	10	0	21	13	6	8	35	2	95	26	1,368	1,260	
2035	269	8	0	19	11	5	8	35	2	89	23	1,391	1,292	
2036	232	7	0	16	10	4	8	35	2	83	19	1,410	1,326	
2037	195	6	0	14	8	4	8	35	2	77	17	1,427	1,357	
2038	158	5	0	11	7	3	9	35	(5)	66	12	1,441	1,391	
2039	120	4	0	8	12	3	9	35	(12)	61	10	1,453	1,425	
2040	81	3	0	6	18	2	9	35	(18)	57	9	1,463	1,460	
2041	43	2	0	5	17	1	9	35	(22)	53	8	1,472	1,498	
2042	45	1	0	3	14	1	9	35	(22)	50	8	1,479	1,536	
2043	25	1	0	2	15	(0)	10	35	(22)	50	6	1,486	1,574	

IN SERVICE COST (\$000)	870
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	25
DEPRECIATION RATE	38.57%
DISCOUNT RATE	8.5%
PROPERTY TAX	1.80%
PROPERTY INSURANCE	0.6124

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	7.03
P/S	0%	8.00
C/S	56%	12.50

K-FACTOR = CPWPC / IN-SVC COST = 1.7073

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Motors

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR. FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR. RATE MINUS LIFE	(10)*(11) TACC RATE \$(000)	SALVAGE TACC RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	32	32	35	35	32	32	0	81	0	0	0	0	(22)
2020	7.25%	61	93	35	70	32	63	11	81	0	0	0	11	(11)
2021	6.68%	57	149	35	104	32	95	10	81	0	0	0	10	(1)
2022	6.38%	52	202	35	139	32	127	8	81	0	0	0	8	7
2023	5.73%	48	250	35	174	32	159	5	81	0	0	0	5	12
2024	5.29%	45	295	35	209	32	189	4	81	0	0	0	4	16
2025	4.89%	41	336	35	244	32	221	3	81	0	0	0	3	19
2026	4.52%	38	374	35	278	32	253	2	81	0	0	0	2	21
2027	4.40%	38	412	35	312	32	284	2	81	0	0	0	2	23
2028	4.40%	38	450	35	348	32	316	2	81	0	0	0	2	25
2029	4.40%	38	488	35	383	32	347	2	81	0	0	0	2	27
2030	4.40%	38	525	35	418	32	379	2	81	0	0	0	2	29
2031	4.40%	38	563	35	453	32	410	2	81	0	0	0	2	31
2032	4.40%	38	601	35	487	32	442	2	81	0	0	0	2	33
2033	4.40%	38	639	35	522	32	473	2	81	0	0	0	2	35
2034	4.40%	38	676	35	557	32	505	2	81	0	0	0	2	37
2035	4.40%	38	714	35	592	32	537	2	81	0	0	0	2	39
2036	4.40%	38	752	35	627	32	568	2	81	0	0	0	2	41
2037	4.40%	38	790	35	661	32	600	2	81	0	0	0	2	43
2038	4.40%	38	827	35	696	32	631	2	81	0	0	0	2	45
2039	2.23%	19	846	35	731	32	663	(5)	81	0	0	0	(5)	47
2040	0.00%	0	846	35	766	32	694	(12)	81	0	0	0	(12)	49
2041	0.00%	0	846	35	801	32	725	(12)	81	0	0	0	(12)	51
2042	0.00%	0	846	35	835	32	758	(12)	81	0	0	0	(12)	53
2043	0.00%	0	846	35	870	32	790	(12)	81	0	0	0	(12)	55

SALVAGE/REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2025
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(22)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	81
BOOK DEPR. RATE - USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_RRQ
 PROGRAM NAME: Business Motors

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2019	2.73%	32	0	833	35	(20)	892	858	875
2020	7.22%	61	11	801	70	(11)	858	811	834
2021	6.68%	57	16	765	164	(1)	811	767	789
2022	6.18%	52	8	731	139	7	767	734	745
2023	5.71%	48	6	696	174	13	734	683	703
2024	5.28%	45	5	661	209	19	683	643	663
2025	4.89%	41	4	627	244	22	643	604	624
2026	4.52%	38	3	592	278	25	604	567	585
2027	4.16%	38	2	557	313	27	567	530	548
2028	4.66%	38	2	522	348	30	530	492	511
2029	4.66%	38	2	487	383	32	492	455	474
2030	4.66%	38	2	453	418	34	455	418	437
2031	4.66%	38	2	418	453	37	418	381	399
2032	4.66%	38	2	383	487	39	381	344	362
2033	4.66%	38	2	348	522	42	344	306	325
2034	4.66%	38	2	313	557	44	306	269	288
2035	4.66%	38	2	278	592	46	269	232	251
2036	4.66%	38	2	244	627	49	232	195	213
2037	4.66%	38	2	209	661	51	195	158	176
2038	4.66%	38	2	174	696	54	158	120	139
2039	2.23%	19	(5)	139	731	49	120	91	105
2040	0.00%	0	(12)	104	766	37	91	68	79
2041	0.00%	0	(12)	70	801	24	68	45	57
2042	0.00%	0	(12)	35	835	12	45	23	34
2043	0.00%	0	(12)	(0)	870	0	23	0	11

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (\$)	(6) ANNUAL SPENDING (\$/KW)	(7) CUMULATIVE AVERAGE SPENDING (\$/KW)
2009	-10	3.00%	1.000	0.00%	0.00	0.00
2010	-9	3.00%	1.030	0.00%	0.00	0.00
2011	-8	3.00%	1.061	0.00%	0.00	0.00
2012	-7	3.00%	1.093	0.00%	0.00	0.00
2013	-6	3.00%	1.126	0.19%	1.24	0.62
2014	-5	3.00%	1.159	1.90%	15.99	9.24
2015	-4	3.00%	1.194	4.57%	39.61	37.03
2016	-3	3.00%	1.250	37.20%	331.87	222.77
2017	-2	3.00%	1.267	45.74%	420.27	593.84
2018	-1	3.00%	1.305	10.44%	58.79	358.38

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) CUMULATIVE SPENDING WITH AFUDC (\$/KW)	(8a)* DEBT AFUDC (\$/KW)	(8b)* DEBT AFUDC (\$/KW)	(7) YEARLY TOTAL AFUDC (\$/KW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/KW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/KW)	(9c)* CUMULATIVE CPI (\$/KW)	(9d)* DEFERRED TAXES (\$/KW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/KW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/KW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
2009	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	-6	0.62	0.62	0.62	0.65	0.65	0.04	0.04	(0.01)	(0.01)	1.25	1.29
2014	-5	9.29	9.29	9.29	0.79	8.84	0.65	0.70	(0.14)	(0.15)	16.78	18.07
2015	-4	37.47	1.18	1.49	3.22	4.05	2.63	3.35	(0.37)	(0.72)	42.83	60.90
2016	-3	226.84	7.87	8.56	19.29	23.36	15.90	19.25	(3.41)	(4.13)	151.16	412.06
2017	-2	822.26	19.46	28.01	53.10	76.45	43.47	62.72	(9.36)	(13.39)	473.37	885.43
2018	-1	934.83	29.46	57.47	80.29	156.84	64.78	127.50	(13.63)	(27.02)	179.18	1,064.61

IN SERVICE YEAR	2019
PLANT COSTS	725,389,025
AFUDC RATE	3.48%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAC BASIS
CONSTRUCTION CASH	742	742	742
DEBT AFUDC	81		
DEBT AFUDC	47	47	
CPI			104
TOTAL	870	789	846

* Column not specified in workbook

INPUT DATA - PART 2
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Bakers Motor

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6) INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAM L/W EFFECTIVENESS FACTOR	(9) PROGRAM L/W EFFECTIVENESS FACTOR
2009	0	0	6.79	9.17	6.79	0.00	1.00	1.00
2010	0	0	6.61	16.51	6.61	0.00	1.00	1.00
2011	79	79	6.35	7.00	7.59	0.00	1.00	1.00
2012	162	162	6.43	7.63	7.49	0.00	1.00	1.00
2013	248	248	7.06	7.46	7.76	0.00	1.00	1.00
2014	337	337	7.53	7.88	8.13	0.00	1.00	1.00
2015	429	429	8.11	8.55	8.85	0.00	1.00	1.00
2016	523	523	9.00	9.72	10.27	0.00	1.00	1.00
2017	619	619	9.75	10.54	11.20	0.00	1.00	1.00
2018	716	716	10.52	11.35	12.02	0.00	1.00	1.00
2019	716	716	11.29	12.57	13.44	10.41	1.00	1.00
2020	716	716	12.08	13.20	14.02	10.50	1.00	1.00
2021	716	716	12.57	13.74	14.62	10.74	1.00	1.00
2022	716	716	13.05	14.19	15.03	10.81	1.00	1.00
2023	716	716	13.39	14.45	15.20	10.89	1.00	1.00
2024	716	716	13.95	15.02	15.74	10.94	1.00	1.00
2025	716	716	14.40	15.48	16.18	10.96	1.00	1.00
2026	716	716	14.70	15.74	16.40	11.05	1.00	1.00
2027	716	716	15.13	16.11	16.72	11.17	1.00	1.00
2028	716	716	15.60	16.54	17.13	11.36	1.00	1.00
2029	716	716	16.02	16.87	17.35	11.41	1.00	1.00
2030	716	716	16.52	17.25	17.81	11.59	1.00	1.00
2031	716	716	17.08	17.92	18.39	11.80	1.00	1.00
2032	716	716	17.59	18.20	18.55	11.88	1.00	1.00
2033	716	716	18.27	18.87	19.23	12.10	1.00	1.00
2034	716	716	18.73	19.13	19.38	12.14	1.00	1.00
2035	716	716	19.57	20.09	20.40	12.39	1.00	1.00
2036	716	716	20.40	20.92	21.28	12.53	1.00	1.00
2037	716	716	21.11	21.59	21.92	12.70	1.00	1.00
2038	716	716	22.02	22.52	22.85	13.04	1.00	1.00
2039	716	716	22.78	23.25	23.55	13.32	1.00	1.00
2040	716	716	23.59	24.01	24.27	13.44	1.00	1.00
2041	716	716	24.54	24.94	25.18	13.75	1.00	1.00
2042	716	716	25.50	25.90	26.14	14.10	1.00	1.00
2043	716	716	26.74	27.05	27.61	14.40	1.00	1.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF-PEAK SYSTEM FUEL COSTS.

