

Steel Hector & Davis

Tallahassee, Florida

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February 3, 1995

Blanca S. Bayo, Director
Division of Records and Reporting
Florida Public Service Commission
101 East Gaines Street
Tallahassee, FL 32399

RE: DOCKET NO. 950001-~~W1~~

Dear Ms. Bayo:

Enclosed for filing please find an original and fifteen (15) copies of Florida Power & Light Company's Rebuttal Testimony of Messrs. R. Silva and B.T. Birkett.

Very truly yours,

Matthew M. Childs, P.A.

ACK _____

AFA _____

APP _____ MMC/ml

cc: All Parties of Record

CCM _____

CFP _____

EM Dudley 5

LE 1

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GE _____

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**CERTIFICATE OF SERVICE
DOCKET NO. 950001-EI**

I HEREBY CERTIFY that a true and correct copy of Florida Power & Light Company's Rebuttal Testimony of Messrs. R. Silva and B.T. Birkett, have been furnished by Hand Delivery** or U.S. Mail this 3rd day of February, 1995, to the following:

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Matthew M. Childs, P.A.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

FLORIDA POWER & LIGHT COMPANY

REBUTTAL TESTIMONY OF RENE SILVA

DOCKET NO. 950001-EI

February 3, 1995

ORIGINAL
COPY

1 Q Please state your name and address.

2 A. My name is Rene Silva. My business address is 9250 W. Flagler -
3 Street, Miami, Florida 33174.
4

5 Q. By whom are you employed and what is your position?

6 A. I am employed by Florida Power & Light Company (FPL) as Manager
7 of Forecasting and Regulatory Response in the Power Generation
8 Business Unit.
9

10 Q. Have you previously testified in this docket?

11 A. Yes.
12

13 Q. What is the purpose of your testimony?

14 A. My rebuttal testimony rebuts the direct testimony of Witness Steven M.
15 Fietek, filed on behalf of Florida Steel Corporation. Specifically, my
16 testimony will address the concerns that Mr. Fietek expressed
17 regarding FPL's projected cost of natural gas for the April through

1 September 1995 period. My testimony shows that Witness Fietek's
2 conclusion that FPL's projected fuel cost is excessive is invalid, that
3 his methodology is flawed, and that he fails to recognize the difference
4 between the price of gas supply (\$/MMBTU) that FPL purchases, and
5 the cost of gas generation (\$/MWH) that FPL incurs in generating
6 electricity using gas as a fuel.

7

8 **Q.** On page 5, lines 14-16 of his testimony, Witness Fietek states that
9 FPL's natural gas cost projection for the April through September 1995
10 period "is overstated by at least \$55.5 million." Do you agree?

11 **A.** No. FPL's projected cost of natural gas generation for the April through
12 September 1995 Fuel Cost Recovery period (projected period) is
13 based on FPL's November 1994 gas price forecast for the projected
14 period, which reflects then current gas market conditions and
15 perceptions, as well as the cost of gas transportation to FPL, gas
16 supply contract pricing terms, the quantity of gas expected to be used
17 in FPL's system, the efficiency in heat rate (BTU/KWH) with which gas
18 is used in each of FPL's generating units, FPL's projected load
19 requirements and the cost and availability of other sources of energy
20 during the projected period. FPL's projected cost is correct and
21 appropriate for use in the Fuel Cost Recovery Clause for the projected
22 period.

1 Witness Fietek has calculated his \$65.5 million figure by
2 inappropriately applying FPL's updated average unit cost of gas
3 generation (in \$/MWH) for the October 1994 through March 1995
4 period (current period) to FPL's projected gas generation (in MWH)
5 during the projected period and subtracting that product, without
6 explaining why its use is justified, from FPL's projected cost of gas
7 generation for the projected period. Witness Fietek inexplicably refers
8 to this difference as FPL's excessive cost.

9

10 **Q. Why is Witness Fietek's methodology inappropriate?**

11 **A. Because it (1) arbitrarily, and without any justification, assumes that**
12 **the current period gas generation cost estimate (in \$/MWH) should be**
13 **used as the projected fuel cost estimate (in \$/MWH) for a future**
14 **period, and in so doing, (2) fails to recognize a number of significant**
15 **factual (and one projected) differences between the projected period**
16 **and the current period that affect FPL's cost of gas generation.**

17

18 Witness Fietek's methodology erroneously equates FPL's cost of
19 electric generation using gas (in \$/MWH), which I refer to as gas
20 generation, to the price of gas in the market (in \$/MMBTU), thus
21 ignoring other determinants of the cost of gas generation. In addition,
22 he assumes erroneously that the price of gas in the market will not
23 change between the current period ending in March 1995, and the

1 projected period. Therefore, for these reasons, his results are invalid.

2

3 **Q. What are the key differences between the current period, ending**
4 **March 1995 and the projected period that affect the cost of gas**
5 **generation?**

6 **A. There are four significant differences between the projected period and**
7 **the current period that are correctly reflected in FPL's projected cost**
8 **of gas generation for the projected period, and which witness Fietek**
9 **fails to consider.**

10

11 First, the average heat rate of gas generation during the projected
12 period is approximately 9.87% higher than for the current period. This
13 means that, on average, it will take 9.87% more gas to generate a
14 megawatt-hour (MWH) in the projected period. Had Witness Fietek
15 reflected this heat rate difference (that we know will occur) in his
16 calculation, his \$65.5 million would have been reduced to \$43.6
17 million.

18

19 Second, FPL's average firm gas transportation rate will increase by
20 approximately 12.8% from the current period, ending March 1995, to
21 the projected period because FPL will receive, beginning in March
22 1995, 200,000 MMBTU per day of additional gas transportation from
23 the higher-tariff FTS-2 firm service associated with Florida Gas

1 Transmission's Phase III pipeline capacity expansion. Had Witness
2 Fietek also reflected this known increase in the gas transportation cost
3 in his calculation, his result would have been further reduced to \$35.5
4 million.

5
6 Third, during the projected period, FPL will receive approximately \$1.0
7 million in credits from its gas supplier, compared to about \$12.4 million
8 of credits for the current period ending March 1995. These credits
9 were obtained by FPL for its customers as part of the negotiated
10 agreement, concluded in May 1994, to replace prior gas supply
11 contracts with a new long-term contract. Had Witness Fietek's
12 calculation also reflected this known reduction in credits, his result
13 would have been further reduced to less than \$14 million.

14
15 Fourth, we project that, on average, FPL's gas supply price will be
16 \$.10/MMBTU higher during the projected period than for the current
17 period, ending March 1995. Witness Fietek assumes that the gas
18 market price will not change. Applying FPL's projected gas supply
19 price increase to Witness Fietek's calculations further reduces his
20 result to about \$3.3 million, or less than 1.2% of FPL's total projected
21 cost of gas.

22
23 It should be noted that the only determinant of the cost of gas

1 generation (\$/MWH) discussed in Witness Fietek's testimony is the
2 market price of natural gas (\$/MMBTU). My testimony shows that his
3 implied gas price position (no change from the current period), with
4 which we disagree, accounts for less than \$14 million.

5

6 **Q. Why is the average heat rate of gas generation higher in the projected**
7 **period?**

8 **A.** Because as the quantity of natural gas used in FPL's generation
9 system increases, more gas is allocated to generating units that utilize
10 gas less efficiently. During the projected period, gas generation is
11 projected to be approximately 13.6 million MWH; this is 5.4 million
12 MWH or 65.7% more than the 8.2 million MWH (Rebuttal Document
13 No.1, line 14, column H (RS-4)) for the current period, ending March
14 1995. FPL dispatches its most efficient units first, so the additional gas
15 generation is provided by less efficient units. As a result, the average
16 heat rate for gas generation in the projected period is 8,527
17 BTU/KWH; this is 766 BTU/KWH, or 9.87% higher than the 7,761
18 BTU/KWH (Rebuttal Document No.1, line 72, column H (RS-4)) for the
19 current period, ending March, 1995.

20

21 **Q. How would you calculate the impact of heat rate that witness Fietek's**
22 **calculation failed to reflect?**

23 **A.** As I have stated above, Witness Fietek's proposed methodology is

1 invalid. Therefore, I have performed different calculations in order to
2 quantify the magnitude of the error in Witness Fietek's calculation due
3 to each of the four differences described above.

4
5 Multiplying the \$/MMBTU average cost of gas in the current period
6 ending March 1995, shown in Document No.1, line 62, column H
7 (\$2.1057/MMBTU) by the total MMBTU used in the projected period
8 (115,917,400 MMBTU), and then subtracting that product
9 (\$244,087,269) from FPL's total projected cost of gas for the projected
10 period (\$287,711,489) results in \$43,624,220, instead of Witness
11 Fietek's \$65,533,519. The difference between these figures is the heat
12 rate effect.

13
14 **Q. Please explain why the gas transportation cost will be higher in the**
15 **projected period.**

16 **A. During the current period ending March 1995, FPL is transporting**
17 **approximately 51.2 million MMBTU of gas at \$0.54/MMBTU, the tariff**
18 **approved by the Federal Energy Regulatory Commission (FERC) for**
19 **FTS-1 (existing firm gas transportation service provided by Florida Gas**
20 **Transmission (FGT) to FPL and other Florida customers), including**
21 **compressor fuel charges. FPL is also transporting about 6.2 million**
22 **MMBTU of gas at \$0.86/MMBTU, the tariff approved by FERC for**
23 **FTS-2 (new firm gas transportation service scheduled to begin on**

1 Q. What is the effect of the reduction in credits that Witness Fietek's
2 calculation failed to reflect?

3 A. Approximately \$21.5 million. During the current period, ending March,
4 1995, the \$12.4 million in credits are divided by the 63,680,761
5 MMBTU of gas FPL is purchasing. This credit amount reduces FPL's
6 unit cost of gas by \$0.1943/MMBTU, and thus contributes to the lower
7 (\$2.1057/MMBTU) cost of gas during the current period. For the
8 projected period, the \$1.0 million in credits, divided by the 115,917,400
9 MMBTU of gas FPL projects to purchase, will reduce FPL's cost of gas
10 by only \$0.0088/MMBTU. The difference, \$0.1855/MMBTU, multiplied
11 by the 115,917,400 MMBTU of gas FPL will purchase in the projected
12 period results in \$21,502,678. This is the amount that Witness
13 Fietek's calculation failed to reflect. This effect of known reduced
14 credits should be subtracted from the \$35,481,120 shown previously
15 to reduce the figure to \$13,978,442.

16
17 Q. Please explain how FPL's projected difference in the gas supply price
18 affects the cost of gas generation in the projected period.

19 A. The weighted average cost of gas supply (for that portion of the gas
20 delivered through firm transportation) during the projected period is
21 \$1.86/MMBTU, or \$0.10/MMBTU higher than for the current period
22 (Rebuttal Document No.2 (RS-5)). This price increase reflects our view
23 that greater gas market demand in August and September will push

1 gas supply prices to the higher levels that existed in the first quarter
2 of 1994. Multiplying the \$0.10/MMBTU projected price difference
3 between the projected period and the current period ending March
4 1995, by the quantity of gas delivered under firm transportation in the
5 projected period (110,790,000 MMBTU) results in \$10,637,271. This
6 is the effect of the difference in FPL's projected price of gas supply
7 between the two periods. Witness Fietek's methodology erroneously
8 implies that this effect is \$65.5 million.

9
10 If this \$10,637,271 is subtracted from the \$13,978,442 shown above,
11 only \$3,341,171 remains. This difference relates to changes in the cost
12 of interruptible gas transportation and the cost of gas supply delivered
13 through interruptible transportation.

14

15 Q. How will FPL reflect changes in gas market conditions on its projected
16 cost of fuel?

17 A. We will continue to monitor and evaluate gas market developments,
18 as well as changes in other fuels. Prior to the Prehearing Conference,
19 we will determine whether changes in fuel market conditions (for gas
20 and other energy sources) suggest that a change in the overall
21 projected cost of fuel for the projected period is appropriate and, if so,
22 we will propose a change at that time. Mr Birkett's Rebuttal Testimony
23 also discusses, the process and procedures used to address the

1 effects of changing fuel prices in the Fuel Cost Recovery Clause.

2

3 Q. On page 6, lines 9-14 of his testimony, Witness Fietek states: "FPL did
4 not recognize the lower actual average cost of natural gas when it
5 projected its natural gas cost for the period April 1995 through
6 September 1995 but instead continued to use its higher original
7 estimate for October 1994 through March 1995 as the starting point for
8 projecting its future gas costs." Do you agree?

9 A. No. This is incorrect. The average gas supply price projected in FPL's
10 price projection prepared in May, 1994 for the October, 1994 through
11 March, 1995 period was \$2.29/MMBTU. In November, 1994, the
12 average projected gas supply price for the October, 1994 through
13 March, 1995 period was reduced to \$1.76/MMBTU, and a new gas
14 price projection was developed, recognizing the reduced cost of gas,
15 for the April through September 1995 period which resulted in an
16 average gas supply price of 1.86/MMBTU (Rebuttal Document No. 2
17 (RS-5)). This November price projection is the one used in FPL's Fuel
18 Cost Recovery filing of January 1995.

19

20 Q. On page 7, lines 14-17 of his testimony, Witness Fietek recommends
21 that the Commission reduce FPL's projected fuel cost by \$65.5 million.
22 Do you agree?

23 A. No. Witness Fietek's testimony uses a flawed calculation in an attempt

1 to support his conclusion that FPL used an excessively high price of
2 gas supply in its calculation of the projected fuel cost for the April
3 through September 1995 period. Moreover, in reaching his conclusion,
4 Witness Fietek fails to recognize the difference between FPL's price
5 of gas supply and its cost of electric generation using gas. As a result,
6 although his testimony is intended as a criticism of FPL's gas price
7 projection, it does not accomplish that objective because it criticizes
8 a gas price projection that does not exist.

9
10 The calculation that resulted in Witness Fietek's \$65.5 million figure is
11 invalid because, as demonstrated in my testimony, it fails to reflect a
12 number of significant known facts that affect the cost of gas
13 generation, and his arbitrary assumption that current period costs
14 should be used to estimate the cost for a future period has no
15 justification. In addition, it would not be appropriate to adjust the total
16 projected fuel cost for the projected period based solely on the
17 perceived variation in a single fuel, without considering the effect of
18 changes in prices of other fuels. Therefore his recommendation is
19 without merit and should be rejected.

20

21 Q. Does this conclude your rebuttal testimony?

22 A. Yes, it does.

COMPANY: FLORIDA POWER & LIGHT COMPANY
 GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE
 ESTIMATED/ACTUAL FOR THE PERIOD OF OCTOBER 1994 - MARCH 1995
 PER SCHEDULE A-3 FOR OCTOBER & NOVEMBER 1994 AND REVISED SCHEDULE E-3 FOR DECEMBER 1994 THROUGH MARCH 1995

LINE NO.	(A) FUEL COST OF SYSTEM NET GENERATION (\$)	(B) ACTUAL		(C)		(D)		(E) RE-ESTIMATED		(F)		(G)		(H) 6-MONTHS TOTAL
		OCT 94	NOV 94	DEC 94	JAN 95	FEB 95	MAR 95	DEC 94	JAN 95	FEB 95	MAR 95			
1	HEAVY OIL	48,136,940	41,495,380	29,206,256	24,658,260	25,155,538	17,620,329	186,274,703						
2	LIGHT OIL	127,337	11,671	323,392	16,843	833,214	547	812,904						
3	COAL	7,653,551	7,786,035	8,259,822	8,441,088	3,240,550	5,809,249	41,170,305						
4	GAS	17,059,772	21,896,630	21,778,412	20,322,914	19,660,713	33,371,518	134,090,159						
5	NUCLEAR	8,826,487	6,239,983	7,309,417	9,720,652	8,787,852	9,705,863	50,590,274						
6	ORIMULSION	0	0	0	0	0	0	0						
7														
8	TOTAL (\$)	81,806,097	77,409,799	66,877,299	63,159,757	57,177,967	66,507,626	412,938,344						
9														
10	SYSTEM NET GENERATION (MWH)													
11	HEAVY OIL	2,101,162	1,760,776	1,345,459	1,161,126	1,236,223	903,273	8,508,019						
12	LIGHT OIL	8,412	232	10,795	307	11,905	8	28,659						
13	COAL	434,888	489,823	478,412	608,654	204,589	349,613	2,442,277						
14	GAS	1,318,162	1,489,822	1,230,854	1,257,406	1,158,965	1,751,850	8,204,749						
15	NUCLEAR	1,600,229	1,210,182	1,514,198	2,096,633	1,895,449	2,095,330	10,413,920						
16	ORIMULSION	0	0	0	0	0	0	0						
17														
18	TOTAL (MWH)	5,457,860	4,930,636	4,577,718	5,024,826	4,605,121	5,100,074	29,595,624						
19														
20	UNITS OF FUEL BURNED													
21	HEAVY OIL (Bbl)	3,290,581	2,765,662	2,021,815	1,718,498	1,823,731	1,339,880	12,856,147						
22	LIGHT OIL (Bbl)	4,885	472	13,349	617	15,079	19	34,621						
23	COAL (TON)	232,401	142,526	227,923	239,453	89,214	157,107	1,195,629						
24	GAS (MCF)	10,216,625	12,182,848	9,128,428	9,316,563	8,638,389	14,200,908	63,680,761						
25	NUCLEAR (MMBTU)	17,583,667	13,344,127	18,614,655	22,296,645	20,140,712	22,284,647	112,346,463						
26	ORIMULSION (TON)	0	0	0	0	0	0	0						
27														
28														
29	BTU BURNED (MMBTU)													
30	HEAVY OIL	20,841,729	17,899,273	12,910,318	10,921,518	11,605,647	8,471,590	82,319,775						
31	LIGHT OIL	27,676	2,760	77,121	3,009	85,072	112	195,740						
32	COAL	4,291,474	4,596,961	4,693,546	4,927,619	1,949,348	3,467,517	23,826,483						
33	GAS	10,216,625	12,182,848	9,128,428	9,316,563	8,638,389	14,200,908	63,680,761						
34	NUCLEAR	17,583,667	13,344,127	18,614,655	22,296,645	20,140,712	22,284,647	112,346,463						
35	ORIMULSION	0	0	0	0	0	0	0						
36														
37	TOTAL (MMBTU)	53,061,171	47,895,979	43,424,068	47,466,364	42,417,066	48,404,574	282,469,212						
38														

COMPANY: FLORIDA POWER & LIGHT COMPANY
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 ESTIMATED/ACTUAL FOR THE PERIOD OF OCTOBER 1994 - MARCH 1995
 PER SCHEDULE A-3 FOR OCTOBER & NOVEMBER 1994 AND REVISED SCHEDULED E-3 FOR DECEMBER 1994 THROUGH MARCH 1995

LINE NO.	(A)	(B) ACTUAL		(C)		(D)			(E) RE-ESTIMATED			(G)	(H) 6-MONTHS TOTAL
		OCT 94	NOV 94	DEC 94	JAN 95	FEB 95	MAR 95						
39	GENERATION MIX (%/MWH)												
40	HEAVY OIL	35.50%	35.71%	29.30%	23.11%	27.44%	17.71%	28.75%					
41	LIGHT OIL	0.00%	0.00%	0.24%	0.01%	0.26%	0.00%	0.09%					
42	COAL	7.97%	8.53%	10.41%	10.09%	4.54%	8.89%	8.25%					
43	GAS	24.15%	20.21%	23.09%	23.03%	23.80%	24.35%	27.72%					
44	NUCLEAR	29.32%	24.54%	33.05%	41.77%	42.07%	41.08%	35.18%					
45	ORIMULSION	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%					
46	TOTAL (%)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%					
47													
48	FUEL COST PER UNIT												
49	HEAVY OIL (\$/BTU)	14.0294	15.0038	14.3957	14.3554	13.7934	13.2298	14.3773					
50	LIGHT OIL (\$/BTU)	28.0589	24.8148	23.9955	22.1783	22.0979	23.7935	23.4801					
51	COAL (\$/TON)	32.9326	32.0216	30.2307	35.3515	37.4873	34.7635	34.4340					
52	GAS (\$/MMBtu)	1.8998	1.7973	2.3953	2.1816	2.2765	2.3500	2.1957					
53	NUCLEAR (\$/MMBtu)	0.4991	0.4678	0.4399	0.4359	0.4383	0.4359	0.4593					
54	ORIMULSION (\$/TON)	n/a	n/a	n/a	n/a	n/a	n/a	n/a					
55													
56													
57													
58	TOTAL FUEL COST PER MMBTU (\$/MMBtu)	2.3097	2.3618	2.2622	2.2576	2.1875	2.0900	2.2828					
59	HEAVY OIL	4.6010	4.3078	4.1033	4.8976	3.9168	4.9839	4.1530					
60	LIGHT OIL	1.7834	1.8954	1.7996	1.7130	1.8624	1.8763	1.7807					
61	COAL	1.6996	1.7973	2.3953	2.1816	2.2765	2.3500	2.1957					
62	GAS	0.4991	0.4678	0.4399	0.4359	0.4383	0.4359	0.4593					
63	NUCLEAR	n/a	n/a	n/a	n/a	n/a	n/a	n/a					
64	ORIMULSION	n/a	n/a	n/a	n/a	n/a	n/a	n/a					
65													
66	TOTAL (\$/MMBtu)	1.5417	1.6230	1.5401	1.5306	1.5480	1.5740	1.4619					
67													
68													
69	BTU BURNED PER KWH (\$/KWH)	9.919	9.978	9.595	9.408	9.388	9.379	9.676					
70	HEAVY OIL	8.111	11.653	7.144	9.801	7.146	14.000	7.342					
71	LIGHT OIL	9.868	9.784	9.862	9.720	9.828	9.918	9.797					
72	COAL	7.751	8.179	7.418	7.409	7.465	8.108	7.701					
73	GAS	11.051	11.027	10.973	10.626	10.626	10.626	10.788					
74	NUCLEAR	n/a	n/a	n/a	n/a	n/a	n/a	n/a					
75	ORIMULSION	n/a	n/a	n/a	n/a	n/a	n/a	n/a					
76													
77	TOTAL (\$/KWH)	9.722	9.674	9.486	9.447	9.415	9.491	9.544					
78													
79	GENERATED FUEL COST PER KWH (\$/KWH)	2.2911	2.3567	2.1707	2.1237	2.0349	1.9507	2.1894					
80	HEAVY OIL	3.7320	4.9875	2.9958	5.4863	2.7969	6.8375	3.0483					
81	LIGHT OIL	1.7599	1.6530	1.6651	1.5839	1.6818	1.6818	1.6857					
82	COAL	1.2942	1.4701	1.7694	1.8163	1.8983	1.9049	1.8343					
83	GAS	0.5516	0.5156	0.4827	0.4632	0.4636	0.4632	0.4658					
84	NUCLEAR	n/a	n/a	n/a	n/a	n/a	n/a	n/a					
85	ORIMULSION	n/a	n/a	n/a	n/a	n/a	n/a	n/a					
86	TOTAL (\$/KWH)	1.4989	1.5700	1.4609	1.2571	1.2882	1.3041	1.3663					

FLORIDA POWER & LIGHT COMPANY
COMPARISON OF FPL'S PROJECTED COST OF NATURAL GAS SUPPLY DELIVERED
UNDER FIRM TRANSPORTATION

	CURRENT PERIOD		PROJECTED PERIOD	
	\$/MMBTU	MMBTU	\$/MMBTU	MMBTU
OCTOBER, 1994	\$1.60	8,680,000	APRIL, 1995	\$1.75 14,400,000
NOVEMBER	\$1.74	7,650,000	MAY	\$1.78 19,530,000
DECEMBER	\$1.84	9,300,000	JUNE	\$1.70 18,900,000
JANUARY, 1995	\$1.94	9,300,000	JULY	\$1.74 19,530,000
FEBRUARY	\$1.77	8,400,000	AUGUST	\$1.99 19,530,000
MARCH	\$1.69	14,105,000	SEPTEMBER	\$2.15 18,900,000
WEIGHTED AVERAGE	\$1.76		WEIGHTED AVERAGE	\$1.86
TOTAL		57,435,000	TOTAL	110,790,000
DIFFERENCE IN PROJECTED AVERAGE COST OF NATURAL GAS SUPPLY:			\$0.10	
EFFECT ON PROJECTED PERIOD COST:			\$10,837,271.35	