

**BEFORE THE FLORIDA
PUBLIC SERVICE COMMISSION**

**DOCKET NO. 010001-EI
FLORIDA POWER & LIGHT COMPANY**

SEPTEMBER 20, 2001

**GENERATING PERFORMANCE INCENTIVE FACTOR
PERFORMANCE FACTOR**

JANUARY 2002 THROUGH DECEMBER 2002

TESTIMONY & EXHIBITS OF:

R. SILVA

DOCUMENT NUMBER-DATE

11835 SEP 20 01

FPSC-COMMISSION CLERK

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **FLORIDA POWER & LIGHT COMPANY**

3 **TESTIMONY OF R. SILVA**

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5 **SEPTEMBER 20, 2001**

6

7 **Q. Please state your name and business address.**

8 A. My name is Rene Silva and my business address is 700 Universe Boulevard, Juno Beach,
9 Florida 33408.

10

11 **Q. Mr. Silva, would you please state your present position with Florida Power and**
12 **Light Company (FPL).**

13 A. I am the Manager of Business Services in the Power Generation Business Unit of FPL.

14

15 **Q. Mr. Silva, have you previously had testimony presented in this docket?**

16 A. Yes, I have.

17

18 **Q. Mr. Silva, what is the purpose of your testimony?**

19 A. The purpose of my testimony is to present the target unit average net operating heat rates
20 and target unit equivalent availability for the period of January through December, 2002,
21 for use in determining the Generating Performance Incentive Factor (GPIF).

22

23 **Q. Mr. Silva, please summarize what the FPL system targets are for Equivalent**
24 **Availability Factor (EAF) and Average Net Operating Heat Rate (ANOHR).**

1 A. For the period of January through December, 2002, FPL projects a weighted system
2 equivalent planned outage factor of 4.3 % and a weighted system equivalent unplanned
3 outage factor of 6.1 %, which yield a weighted system equivalent availability target of
4 89.6 %. The targets for this period reflect planned refueling outages for two nuclear
5 units. FPL also projects weighted system average net operating heat rate target of 9187
6 BTU/KWH for the period January through December, 2002. As discussed later in this
7 testimony, these targets represent fair and reasonable values when compared to
8 historical data. FPL therefore requests that the targets for these performance indicators
9 be approved by the Commission.

10

11 **Q. Have you prepared, or caused to have prepared under your direction, supervision**
12 **or control, an exhibit in this proceeding?**

13 A. Yes, I have. It consists of one document. The first page of this document is an index to
14 the contents of the document. All other pages are numbered according to the latest
15 revisions of the GPIF Manual as approved by the Commission.

16

17 **Q. Have you established target levels of performance for the units to be considered in**
18 **establishing the GPIF for FPL?**

19 A. Yes, I have. In my Document No.1, pages 6 and 7, contain the information summarizing
20 the targets and ranges for unit equivalent availability and average net operating heat rates
21 for the twenty-two (22) generating units which FPL proposes to be considered as GPIF
22 units for the period of January through December, 2002. The Sheets presented in these
23 pages were prepared in accordance with the latest revisions of the GPIF Manual. All of

1 these targets have been derived utilizing methodologies as adopted in Section 4,
2 Subsection 2.3 of the GPIF Manual.

3
4 **Q. Please summarize FPL's methodology for determining equivalent availability
5 targets?**

6 A. The GPIF Manual requires that the equivalent availability target for each unit be
7 determined as the difference between 100% and the sum of the Planned Outage Factor
8 (POF) and the Unplanned Outage Factor (UOF). The POF for each unit is determined by
9 the length of the planned outage during the projected period. The GPIF Manual also
10 requires that the sum of the most recent twelve month ending average forced outage
11 factor (FOF) and maintenance outage factor (MOF) be used as the starting value for the
12 determination of the target unplanned outage factor (UOF). The UOF is then adjusted to
13 reflect recent unit performance and known unit modifications or equipment changes.
14 This adjustment is applied to units, which have had, during the historical period, or are
15 forecasted to have, during the projection period, planned outages.

16
17 **Q. Mr. Silva, were the EAF targets for the GPIF units determined using the
18 methodology as described in the GPIF Operating Manual?**

19 A. Yes.

20
21 **Q. How did you select the units to be considered when establishing the GPIF for FPL?**

22 A. The twenty-two (22) units which FPL proposes to use for the period of January through
23 December, 2002, represent the top 80.3% of the total forecasted system net generation
24 for this period. These units were selected in accordance with the GPIF Manual Section

1 3.1, using the estimated net generation for each unit taken from the production costing
2 simulation program, POWRSYM, which forms the basis for the projected levelized fuel
3 cost recovery factor for the period. As shown on page 3 of document 1, two of the base
4 load units were excluded from the GPIF. They are the Ft. Myers Repowering unit and
5 the Sanford Unit 5 Repowering. The repowering of both units from conventional steam
6 units to combined cycle units constitute a major design change affecting both their
7 generation capacity and their performance. As a result, the future performance of these
8 units will not be comparable to their historical performance. Therefore, consistent with
9 the GPIF Manual, Section 2.2.1.3, these units should be excluded from the GPIF
10 calculations for at least one year to establish a minimal history to use in projecting future
11 performance. Because of the exclusions of these two units, which accounted for 13.3%
12 of the forecasted system generation, seven additional units were added to the GPIF to
13 reach the required 80% cumulative projected system generation.

14
15 **Q. Mr. Silva, from the heat rate targets and equivalent availability range projections,**
16 **do FPL's generation performance targets represent a reasonable level of efficiency?**

17 A. Yes. These targets are reasonable and in some cases very challenging.

18
19 **Q. Does this conclude your testimony?**

20 A. Yes, it does.

DOCUMENT NO. 1

WITNESS: R. SILVA

DOCKET NO. 010001-EI

GENERATING PERFORMANCE INCENTIVE FACTOR

JANUARY THROUGH DECEMBER, 2002

DOCUMENT NUMBER 1 INDEX**FLORIDA POWER & LIGHT COMPANY****JANUARY THROUGH DECEMBER, 2002**

<u>DOCUMENT</u>	<u>INDEX OF MANUAL PAGES</u>	<u>TITLES</u>
1	7.201.001	Index of Manual Pages
	7.201.002 to 7.201.003	Generating Unit Selection Criteria
	7.201.004	GPIF Reward/(Penalty) Table (Estimated)
	7.201.005	GPIF calculation of Maximum Allowed Dollars (Estimated)
	7.201.006 and 7.201.007	GPIF Target and Range Summary
	7.201.008	GPIF Predicted Unit Heat Rates
	7.201.009	Derivation of Weighting Factors
	7.201.010	Estimated Unit Performance Data
	7.201.011 - 7.201.032	Unit MOF and FOF Versus Time Graphs
	7.201.033	Planned Outages Schedules (Estimated)

Table 2.0
POWRSYM Projected System Generation
Period Of: January Through December 2002

Name	Capacity[*] (MW)	Service Hours	Net Output MWH	NOF %	% of Total Output	Cumulative % of Total Output	Production Cost (\$000)
Ft. Myers Repowering	1,483	4,889	7,234,567	100%	8.6	8.6	192,069
St. Lucie 1	845	7,837	6,626,386	100%	7.9	16.5	21,587
St. Lucie 2	719	8,538	6,140,276	100%	7.3	23.8	19,940
Turkey Point 3	703	8,538	6,003,740	100%	7.1	30.9	19,526
Turkey Point 4	703	7,837	5,513,318	100%	6.5	37.4	16,994
Scherer 4	645	7,057	4,547,052	100%	5.4	42.8	83,718
Sanford Repowering 5	969	4,148	3,967,667	99%	4.7	47.5	106,816
Martin 4	457	7,835	3,515,966	98%	4.2	51.7	94,640
Martin 3	457	7,702	3,482,294	99%	4.1	55.9	94,277
Manatee 2	801	4,577	3,399,288	93%	4.0	59.9	126,842
Martin 2	812	4,091	3,108,268	94%	3.7	63.6	119,805
Lauderdale 5	430	6,858	2,900,226	98%	3.4	67.0	79,817
Lauderdale 4	430	6,861	2,866,302	97%	3.4	70.4	78,881
Manatee 1	801	3,420	2,482,706	91%	2.9	73.4	93,668
Cape Canaveral 1	396	6,031	2,300,068	96%	2.7	76.1	81,108
Port Everglades 4	403	5,314	2,069,470	97%	2.5	78.6	74,481
Port Everglades 3	391	5,176	1,954,462	97%	2.3	80.9	70,484
Martin 1	822	2,630	1,938,634	90%	2.3	83.2	76,052
Turkey Point 1	396	4,687	1,774,562	96%	2.1	85.3	64,698
Riviera 3	279	6,200	1,665,641	96%	2.0	87.3	53,790
Cape Canaveral 2	396	4,154	1,553,029	94%	1.8	89.1	56,978
Riviera 4	291	5,558	1,547,810	96%	1.8	91.0	50,967
Putnam 1	244	4,976	1,118,558	92%	1.3	92.3	40,077
Turkey Point 2	396	2,996	1,101,349	93%	1.3	93.6	41,345
St. Johns River 1	128	8,126	1,042,312	100%	1.2	94.8	15,442
St. Johns River 2	128	7,436	953,821	100%	1.1	96.0	13,709
Putnam 2	244	4,427	942,264	87%	1.1	97.1	34,376
Sanford Repower 4	969	679	654,835	100%	0.8	97.9	18,694
Port Everglades 2	211	2,972	586,535	93%	0.7	98.6	22,040
Port Everglades 1	211	1,671	324,319	92%	0.4	99.0	12,400
Martin SC 8	325	870	239,221	85%	0.3	99.2	9,630
Sanford 3	582	1,238	164,461	23%	0.2	99.4	6,523
Ft. Myers GT 1-12	582	295	154,987	90%	0.2	99.6	12,010
Cutler 6	144	1,104	141,318	89%	0.2	99.8	6,302
Ft. lauderdale GT 1-24	719	114	72,006	88%	0.1	99.9	4,205
Cutler 5	71	984	62,335	89%	0.1	99.9	3,056
Ft. Myers CT 1-6	990	19	17,707	94%	0.0	100.0	703
Port Everglades GT 1-1	363	42	14,543	95%	0.0	100.0	993
Sanford 4	374	42	13,668	87%	0.0	100.0	482
Total	20,309	167,929	84,195,971		100.0	100.0	1,919,126

*From E4 Schedule (simple avg 5 month of winter + 7 month of summer)

FLORIDA POWER & LIGHT COMPANY
UNITS TO BE USED TO DETERMINE THE
GENERATING PERFORMANCE INCENTIVE FACTOR

JANUARY THROUGH DECEMBER, 2002

Cape Canaveral Unit No. 1
Cape Canaveral Unit No.2

Lauderdale Unit No.4
Lauderdale Unit No.5

Manatee Unit No.1
Manatee Unit No.2

Martin Unit No.1
Martin Unit No.2

Martin Unit No.3
Martin Unit No.4

Port Everglades Unit No.3
Port Everglades Unit No.4

Putnam Unit No. 1

Riviera Unit No. 3
Riviera Unit No. 4

Scherer Unit No.4

St.Lucie Unit No.1
St.Lucie Unit No.2

Turkey Point Unit No.1
Turkey Point Unit No.2

Turkey Point Unit No.3
Turkey Point Unit No.4

GENERATING PERFORMANCE INCENTIVE FACTOR

REWARD/PENALTY TABLE (ESTIMATED)

FLORIDA POWER & LIGHT COMPANY
JANUARY THROUGH DECEMBER, 2002

Generating Performance Incentive Points (GPIF)	Fuel Savings/(Loss) (\$000)	Generating Performance Incentive Factor (\$000)
+ 10	62,576	22,268
+ 9	56,318	20,041
+ 8	50,061	17,814
+ 7	43,803	15,588
+ 6	37,546	13,361
+ 5	31,288	11,134
+ 4	25,030	8,907
+ 3	18,773	6,680
+ 2	12,515	4,454
+ 1	6,258	2,227
0	0	0
- 1	(6,703)	(2,227)
- 2	(13,405)	(4,454)
- 3	(20,108)	(6,680)
- 4	(26,810)	(8,907)
- 5	(33,513)	(11,134)
- 6	(40,216)	(13,361)
- 7	(46,918)	(15,588)
- 8	(53,621)	(17,814)
- 9	(60,323)	(20,041)
- 10	(67,026)	(22,268)

GENERATING PERFORMANCE INCENTIVE FACTOR

CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS

ESTIMATED

FLORIDA POWER & LIGHT COMPANY

PERIOD OF: JANUARY THROUGH DECEMBER, 2002

LINE 1	BEGINNING OF PERIOD BALANCE OF COMMON EQUITY		\$	5,361,894,538
	END OF MONTH BALANCE OF COMMON EQUITY			
LINE 2	MONTH OF JANUARY	2002	\$	5,374,905,335
LINE 3	MONTH OF FEBRUARY	2002	\$	5,430,754,397
LINE 4	MONTH OF MARCH	2002	\$	5,444,356,294
LINE 5	MONTH OF APRIL	2002	\$	5,453,506,251
LINE 6	MONTH OF MAY	2002	\$	5,461,712,291
LINE 7	MONTH OF JUNE	2002	\$	5,497,534,800
LINE 8	MONTH OF JULY	2002	\$	5,497,510,626
LINE 9	MONTH OF AUGUST	2002	\$	5,509,469,337
LINE 10	MONTH OF SEPTEMBER	2002	\$	5,508,889,456
LINE 11	MONTH OF OCTOBER	2002	\$	5,466,342,767
LINE 12	MONTH OF NOVEMBER	2002	\$	5,449,200,857
LINE 13	MONTH OF DECEMBER	2002	\$	5,444,606,781
LINE 14	AVERAGE COMMON EQUITY FOR THE PERIOD (SUMMATION OF LINE 1 THROUGH LINE 13 DIVIDED BY 13)		\$	5,453,898,000
LINE 15	25 BASIS POINTS			0.0025
LINE 16	REVENUE EXPANSION FACTOR			60.4594%
LINE 17	MAXIMUM ALLOWED INCENTIVE DOLLARS (LINE 14 TIMES LINE 15 DIVIDED BY LINE 16)		\$	22,551,903
LINE 18	JURISDICTIONAL SALES			94,729,311,256 KWH
LINE 19	TOTAL SALES			95,936,600,369 KWH
LINE 20	JURISDICTIONAL SEPARATION FACTOR (LINE 18 DIVIDED BY LINE 19)			98.74%
LINE 21	MAXIMUM ALLOWED JURISDICTIONAL INCENTIVE DOLLARS		\$	22,268,104

GPIF TARGET AND RANGE SUMMARY

FLORIDA POWER & LIGHT COMPANY
PERIOD OF: JANUARY THROUGH DECEMBER, 2002

<u>Plant / Unit</u>	<u>Weighting Factor (%)</u>	<u>EAF Target (%)</u>	<u>EAF Range</u>		<u>Max. Fuel Savings (\$000's)</u>	<u>Max. Fuel Loss (\$000's)</u>
			<u>Max. (%)</u>	<u>Min. (%)</u>		
Cape Canaveral 1	0.60	90.3	93.3	87.3	375.0	-375.9
Cape Canaveral 2	0.43	88.2	91.2	85.2	268.4	-270.4
Lauderdale 4	1.37	91.8	94.3	89.3	855.8	-858.9
Lauderdale 5	1.35	91.9	94.4	89.4	844.8	-845.9
Manatee 1	0.68	81.5	84.5	78.5	426.5	-430.6
Manatee 2	0.63	85.4	87.9	82.9	397.3	-398.1
Martin 1	0.56	89.2	91.7	86.7	351.1	-351.1
Martin 2	0.63	90.8	93.3	88.3	395.6	-396.8
Martin 3	1.54	94.9	97.4	92.4	965.5	-969.3
Martin 4	1.54	87.9	90.4	85.4	965.9	-965.8
Port Everglades 3	0.44	94.3	96.8	91.8	272.9	-273.2
Port Everglades 4	0.44	86.0	88.5	83.5	277.2	-277.4
Putnam 1	0.23	84.7	87.2	82.2	141.7	-142.1
Riviera 3	0.81	84.4	87.9	80.9	505.9	-504.1
Riviera 4	0.54	93.1	95.6	90.6	339.5	-337.9
Turkey Point 1	0.42	85.4	87.9	82.9	261.0	-260.8
Turkey Point 2	0.33	94.3	96.8	91.8	207.8	-207.2
Turkey Point 3	8.45	93.6	96.6	90.6	5,289.6	-6,359.7
Turkey Point 4	7.75	86.0	89.0	83.0	4,849.2	-5,829.3
St. Lucie 1	9.44	86.0	89.0	83.0	5,908.3	-7,103.6
St. Lucie 2	8.69	93.6	96.6	90.6	5,438.7	-6,538.9
Scherer 4	3.16	84.4	86.4	82.4	1,976.4	-1,966.2
	<u>50.04</u>				<u>31,314.0</u>	<u>-35,663.2</u>

GPIF TARGET AND RANGE SUMMARY

FLORIDA POWER & LIGHT COMPANY
PERIOD OF: JANUARY THROUGH DECEMBER, 2002

<u>Plant / Unit</u>	<u>Weighting Factor (%)</u>	<u>ANOHR TARGET</u>		<u>ANOHR RANGE</u>		<u>Max. Fuel Savings</u>	<u>Max. Fuel Loss</u>
		<u>BTU/KWH</u>	<u>NOF</u>	<u>BTU/KWH</u>	<u>BTU/KWH</u>	<u>(\$000's)</u>	<u>(\$000's)</u>
Cape Canaveral 1	1.12	9,163	96.4	9,009	9,317	700.1	-700.1
Cape Canaveral 2	1.49	9,209	94.5	8,983	9,434	930.8	-930.8
Lauderdale 4	2.27	7,351	97.3	7,143	7,559	1,422.7	-1,422.7
Lauderdale 5	2.17	7,303	98.5	7,103	7,502	1,358.5	-1,358.5
Manatee 1	1.81	9,861	90.6	9,667	10,055	1,133.9	-1,133.9
Manatee 2	2.83	10,054	92.7	9,839	10,269	1,769.9	-1,769.9
Martin 1	4.05	9,147	89.7	8,767	9,527	2,535.4	-2,535.4
Martin 2	6.42	8,884	93.5	8,511	9,257	4,019.6	-4,019.6
Martin 3	2.45	6,828	98.9	6,642	7,014	1,532.7	-1,532.7
Martin 4	2.50	6,734	98.2	6,548	6,921	1,563.8	-1,563.8
Port Everglades 3	2.34	9,355	96.6	9,086	9,625	1,464.3	-1,464.3
Port Everglades 4	3.00	9,192	96.7	8,886	9,499	1,878.3	-1,878.3
Putnam 1	1.16	8,679	92.3	8,447	8,911	724.4	-724.4
Riviera 3	1.36	9,809	96.3	9,578	10,039	852.7	-852.7
Riviera 4	1.08	9,797	95.8	9,592	10,002	676.9	-676.9
Turkey Point 1	2.08	8,960	95.7	8,704	9,216	1,304.3	-1,304.3
Turkey Point 2	1.23	9,410	92.9	9,160	9,660	768.0	-768.0
Turkey Point 3	1.69	11,137	100.0	10,967	11,307	1,058.3	-1,010.6
Turkey Point 4	1.20	11,079	100.1	10,848	11,310	748.6	-745.3
St. Lucie 1	2.75	10,793	100.1	10,673	10,913	1,718.5	-1,682.8
St. Lucie 2	4.12	10,826	100.0	10,716	10,937	2,575.6	-2,761.5
Scherer 4	0.84	10,098	99.9	9,960	10,236	525.3	-525.3
	<u>49.96</u>					<u>31,263</u>	<u>-31,362</u>

PROJECTED UNIT HEAT RATE EQUATIONS
 FLORIDA POWER & LIGHT COMPANY
 PERIOD OF: JANUARY THROUGH DECEMBER, 2002

F

<u>Plant/Unit</u>	<u>ANOHR</u>	<u>NOF</u>	<u>NSC</u>	<u>ANOHR Equation</u>		<u>Bounds</u>	<u>R-sqr</u>	<u>First</u>	<u>Last</u>	<u>Exclusions</u>
				<u>a</u>	<u>b</u>					
Cape Canaveral 1	9163	96	396	10788	-17	154	0.57 06-98	05-01		11-99
Cape Canaveral 2	9209	94	396	10900	-18	225	0.45 06-98	05-01		11-00
Lauderdale 4	7351	97	430	8271	-9	208	0.37 06-98	05-01		No exclusions
Lauderdale 5	7303	98	430	8470	-12	199	0.50 06-98	05-01		No exclusions
Manatee 1	9861	91	801	11200	-15	194	0.47 06-98	05-01		11-98, 11-00
Manatee 2	10054	93	801	10668	-7	215	0.08 06-98	05-01		02-00-03-00
Martin 1	9147	90	822	11785	-29	380	0.43 06-98	05-01		02-99 - 04-99, 02-01
Martin 2	8884	94	812	11702	-30	373	0.49 06-98	05-01		12-98, 02-99, 03-99
Martin 3	6828	99	457	6891	-1	186	0.00 06-98	05-01		No exclusions
Martin 4	6734	98	457	7134	-4	186	0.17 06-98	05-01		No exclusions
Port Everglades 3	9355	97	391	11090	-18	269	0.38 06-98	05-01		04-99, 03-01
Port Everglades 4	9192	97	403	11568	-25	307	0.51 06-98	05-01		No exclusions
Putnam 1	8679	92	244	11676	-32	232	0.83 06-98	05-01		04-99, 01-01
Riviera 3	9809	96	279	11282	-15	230	0.63 06-98	05-01		02-00
Riviera 4	9797	96	291	11109	-14	205	0.51 06-98	05-01		11-99
Turkey Point 1	8960	96	396	10909	-20	256	0.53 06-98	05-01		No exclusions
Turkey Point 2	9410	93	396	10372	-10	250	0 19 06-98	05-01		No exclusions
Turkey Point 3	11137	100	703	17338	-62	170	0.69 06-98	05-01		10-98, 03-00
Turkey Point 4	11079	100	703	13771	-27	231	0 49 06-98	05-01		No exclusions
St. Lucie 1	10793	100	845	12345	-16	120	0.37 06-98	05-01		04-01
St. Lucie 2	10826	100	719	12021	-12	110	0.27 06-98	05-01		No exclusions
Scherer 4	10098	100	645	10955	-9	138	0.10 06-98	05-01		07-98, 11-99, 04-01

DERIVATION OF WEIGHT FACTORS

FLORIDA POWER & LIGHT COMPANY
PERIOD OF: JANUARY THROUGH DECEMBER, 2002

PRODUCTION COSTING SIMULATION
FUEL COST (\$000'S)

Unit	Performance Indicator	At Target	At Maximum Improvement	Savings	Factor
		(1)	(2)	(3)	(% Of Savings)
Cape Canaveral 1	EAF	1,919,126	1,919,501	375 0	0 60
	ANOHR	1,919,126	1,919,826	700 1	1 12
Cape Canaveral 2	EAF	1,919,126	1,919,395	268 4	0 43
	ANOHR	1,919,126	1,920,057	930 8	1 49
Lauderdale 4	EAF	1,919,126	1,919,982	855 8	1 37
	ANOHR	1,919,126	1,920,549	1,422 7	2 27
Lauderdale 5	EAF	1,919,126	1,919,971	844 8	1 35
	ANOHR	1,919,126	1,920,485	1,358 5	2 17
Manatee 1	EAF	1,919,126	1,919,553	426 5	0 68
	ANOHR	1,919,126	1,920,260	1,133 9	1 81
Manatee 2	EAF	1,919,126	1,919,524	397 3	0 63
	ANOHR	1,919,126	1,920,896	1,769 9	2 83
Martin 1	EAF	1,919,126	1,919,477	351 1	0 56
	ANOHR	1,919,126	1,921,662	2,535 4	4 05
Martin 2	EAF	1,919,126	1,919,522	395 6	0 63
	ANOHR	1,919,126	1,923,146	4,019 6	6 42
Martin 3	EAF	1,919,126	1,920,092	965 5	1 54
	ANOHR	1,919,126	1,920,659	1,532 7	2 45
Martin 4	EAF	1,919,126	1,920,092	965 9	1 54
	ANOHR	1,919,126	1,920,690	1,563 8	2 50
Port Everglades 3	EAF	1,919,126	1,919,399	272 9	0 44
	ANOHR	1,919,126	1,920,591	1,464 3	2 34
Port Everglades 4	EAF	1,919,126	1,919,403	277 2	0 44
	ANOHR	1,919,126	1,921,005	1,878 3	3 00
Putnam 1	EAF	1,919,126	1,919,268	141 7	0 23
	ANOHR	1,919,126	1,919,851	724 4	1 16
Riviera 3	EAF	1,919,126	1,919,632	505 9	0 81
	ANOHR	1,919,126	1,919,979	852 7	1 36
Riviera 4	EAF	1,919,126	1,919,466	339 5	0 54
	ANOHR	1,919,126	1,919,803	676 9	1 08
Turkey Point 1	EAF	1,919,126	1,919,387	261 0	0 42
	ANOHR	1,919,126	1,920,431	1,304 3	2 08
Turkey Point 2	EAF	1,919,126	1,919,334	207 8	0 33
	ANOHR	1,919,126	1,919,894	768 0	1 23
Turkey Point 3	EAF	1,919,126	1,924,416	5,289 6	8 45
	ANOHR	1,919,126	1,920,185	1,058 3	1 69
Turkey Point 4	EAF	1,919,126	1,923,975	4,849 2	7 75
	ANOHR	1,919,126	1,919,875	748 6	1 20
St Lucie 1	EAF	1,919,126	1,925,035	5,908 3	9 44
	ANOHR	1,919,126	1,920,845	1,718 5	2 75
St Lucie 2	EAF	1,919,126	1,924,565	5,438 7	8 69
	ANOHR	1,919,126	1,921,702	2,575 6	4 12
Scherer 4	EAF	1,919,126	1,921,103	1,976 4	3 16
	ANOHR	1,919,126	1,919,652	525 3	0 84
TOTAL				62,576 8	100 00

(1) FUEL ADJUSTMENT MID BAND CASE - ALL UNIT PERFORMANCE INDICATORS AT TARGET

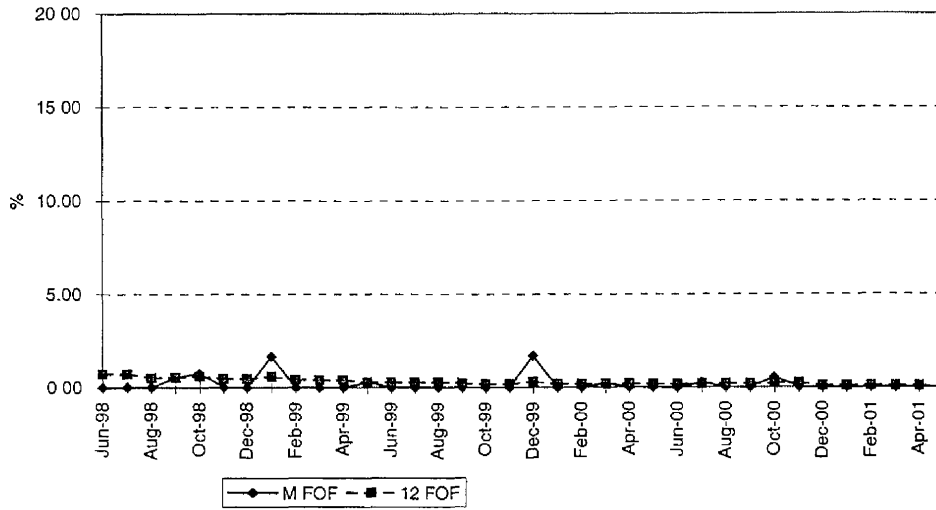
(2) ALL OTHER UNIT PERFORMANCE AT TARGET

(3) EXPRESSED IN REPLACEMENT ENERGY COSTS

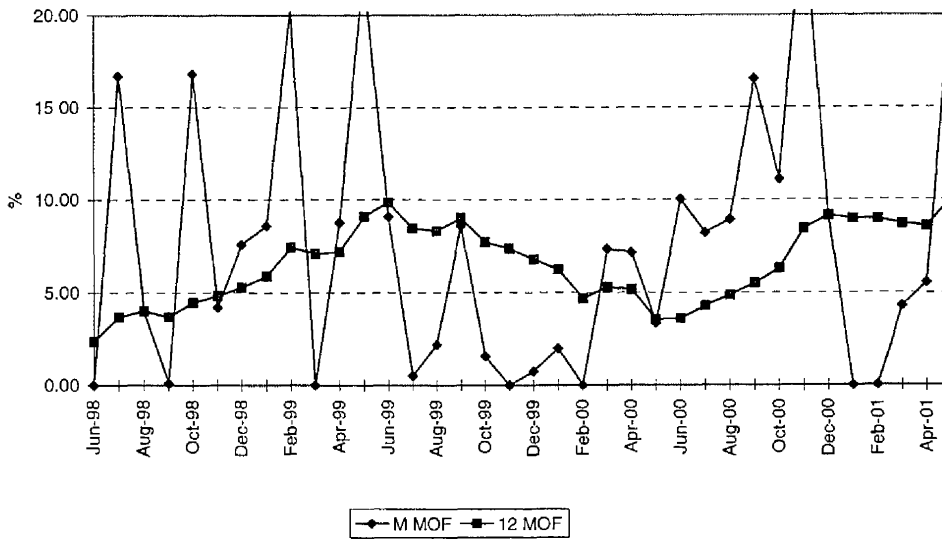
ESTIMATED UNIT PERFORMANCE DATA
 FLORIDA POWER & LIGHT COMPANY
 PERIOD OF: JANUARY THROUGH DECEMBER, 2002

<u>Plant/Unit</u>	<u>EA</u>	<u>EP</u>	<u>EU</u>	<u>EO</u>	<u>PH</u>	<u>SH</u>	<u>RS</u>	<u>UH</u>	<u>EPO</u>	<u>EFO</u>	<u>EMO</u>	<u>NET GEN</u>
Cape Canaveral 1	90.3	0.0	9.7	12.3	8,760	6,031	1,879	850	0	175	675	2,300,068
Cape Canaveral 2	88.2	3.8	7.7	14.0	8,760	4,154	3,599	1,007	333	166	508	1,553,029
Lauderdale 4	91.8	2.7	5.5	6.6	8,760	6,861	1,181	718	237	166	315	2,866,302
Lauderdale 5	91.9	2.7	5.4	6.5	8,760	6,858	1,192	710	237	166	307	2,900,226
Manatee 1	81.5	7.7	10.8	21.7	8,760	3,420	3,719	1,621	675	158	788	2,482,706
Manatee 2	85.4	7.9	6.4	10.9	8,760	4,577	2,930	1,253	692	158	403	3,399,288
Martin 1	89.2	4.1	6.4	17.6	8,760	2,630	5,210	920	359	210	350	1,938,634
Martin 2	90.8	4.1	4.8	9.3	8,760	4,091	3,889	780	359	166	254	3,108,268
Martin 3	94.9	0.0	5.1	5.5	8,760	7,702	611	447	0	175	272	3,482,294
Martin 4	87.9	4.2	5.4	5.7	8,760	7,835	84	841	368	280	193	3,515,966
Port Everglades 3	94.3	0.0	5.7	8.8	8,760	5,176	3,085	499	0	175	324	1,954,462
Port Everglades 4	86.0	7.9	5.8	8.7	8,760	5,314	2,246	1,200	692	158	350	2,069,470
Putnam 1	84.7	4.8	5.7	9.1	8,760	4,976	2,864	920	420	333	166	1,118,558
Riviera 3	84.4	0.0	15.6	18.1	8,760	6,200	1,193	1,367	0	429	937	1,665,641
Riviera 4	93.1	0.0	6.9	9.8	8,760	5,558	2,598	604	0	175	429	1,547,810
Turkey Point 1	85.4	7.4	6.9	11.4	8,760	4,687	2,820	1,253	648	166	438	1,774,562
Turkey Point 2	94.3	0.0	5.7	14.3	8,760	2,996	5,265	499	0	175	324	1,101,349
Turkey Point 3	93.6	0.0	6.4	6.4	8,760	8,199	0	561	0	280	280	6,003,740
Turkey Point 4	86.0	8.2	5.8	6.3	8,760	7,532	0	1,228	720	254	254	5,513,318
St. Lucie 1	86.0	8.2	5.8	6.3	8,760	7,532	0	1,228	720	254	254	6,626,386
St. Lucie 2	93.6	0.0	6.4	6.4	8,760	8,199	0	561	0	280	280	6,140,276
Scherer 4	84.4	11.8	3.6	4.3	8,760	7,057	354	1,349	1,034	158	158	4,547,052

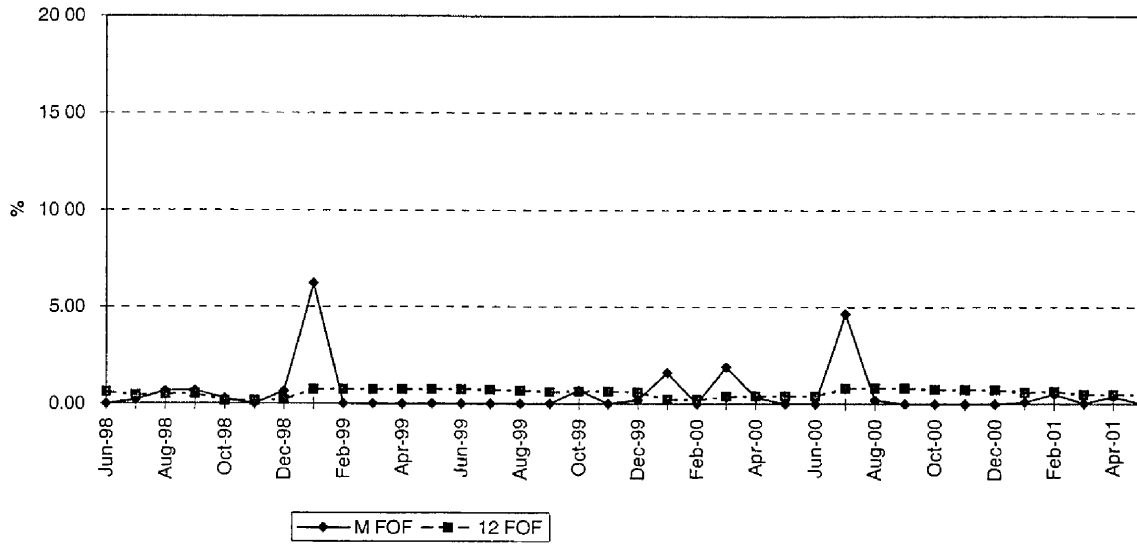
PCC 1 FORCED OUTAGE FACTOR



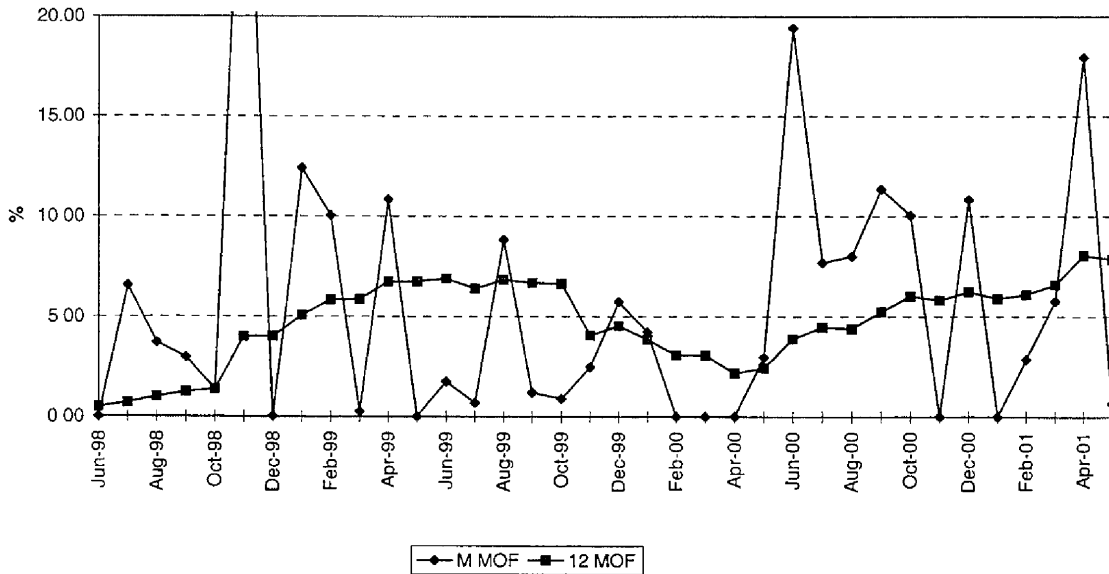
MAINTENANCE OUTAGE FACTOR



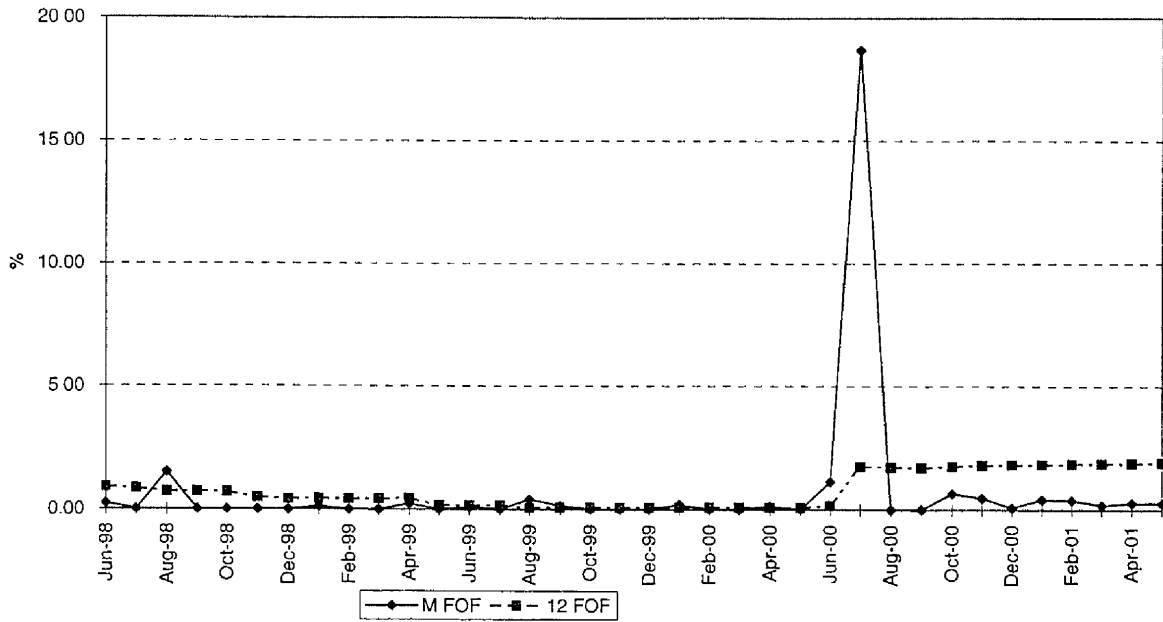
PCC 2 FORCED OUTAGE FACTOR



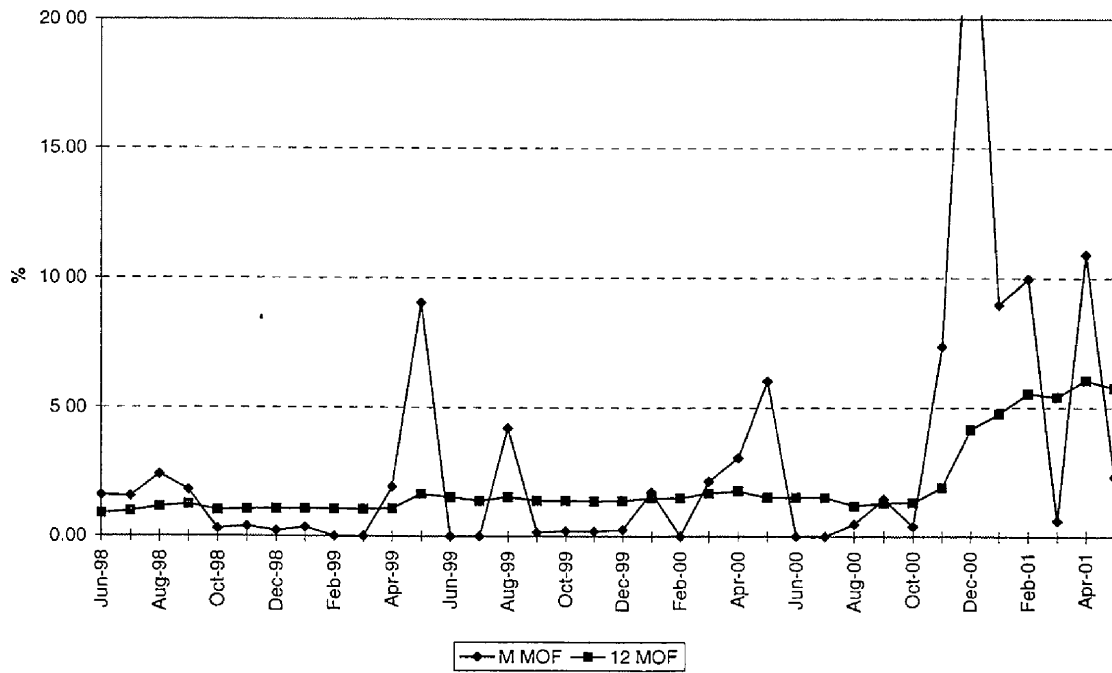
MAINTENANCE OUTAGE FACTOR



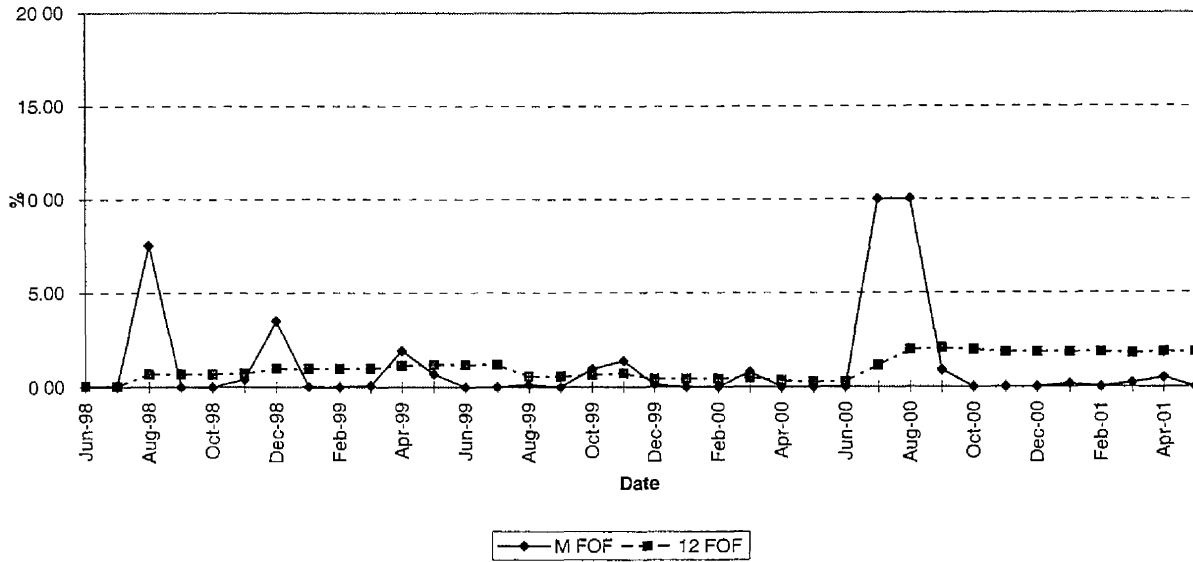
PFL 4 FORCED OUTAGE FACTOR



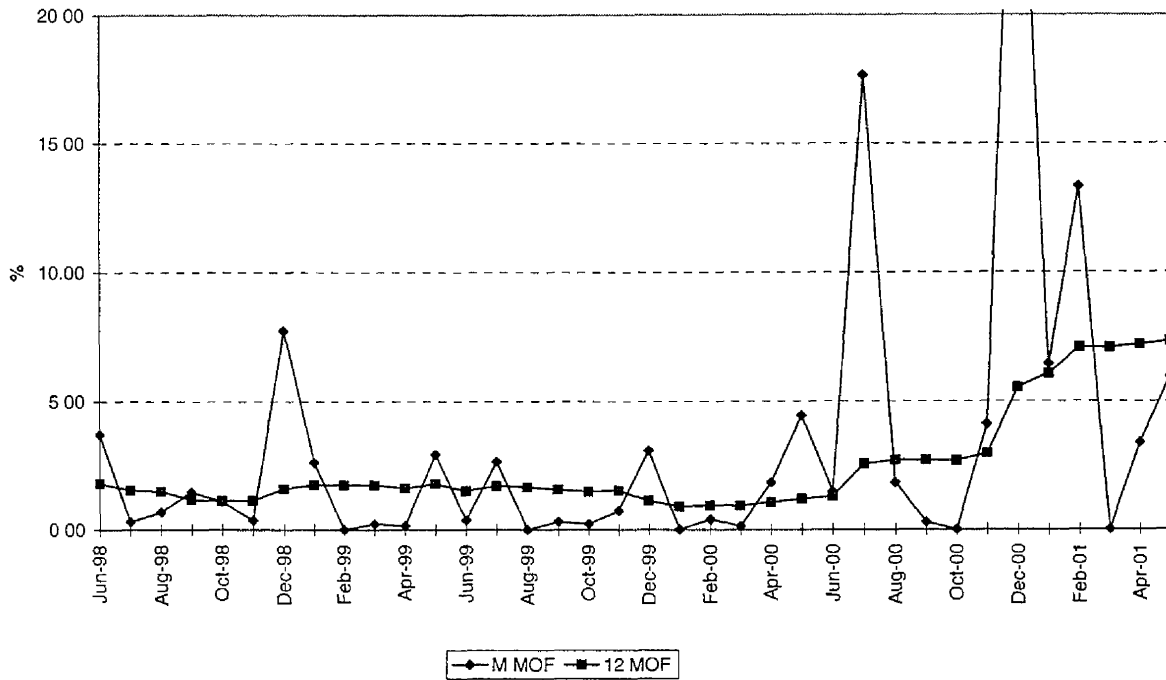
MAINTENANCE OUTAGE FACTOR



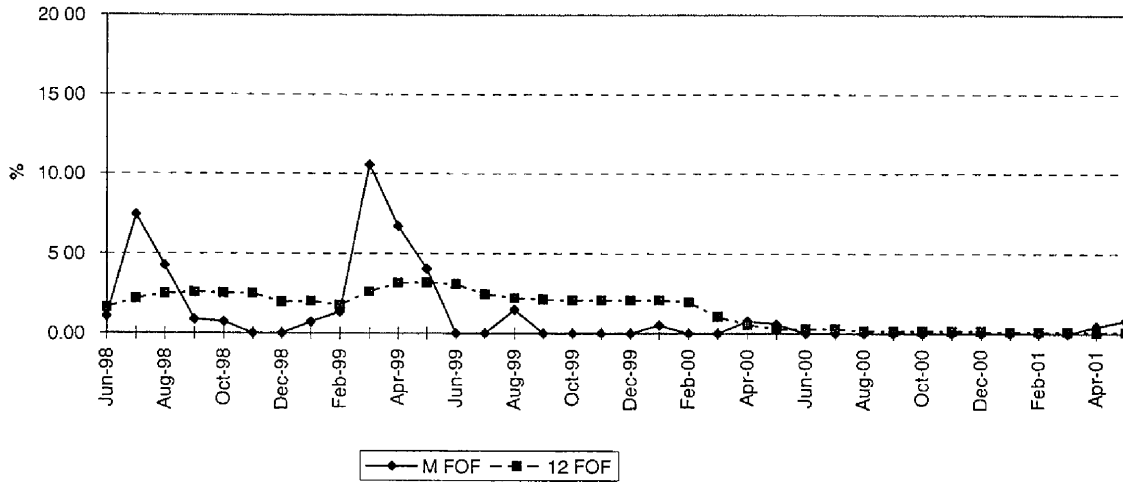
PFL 5 FORCED OUTAGE FACTOR



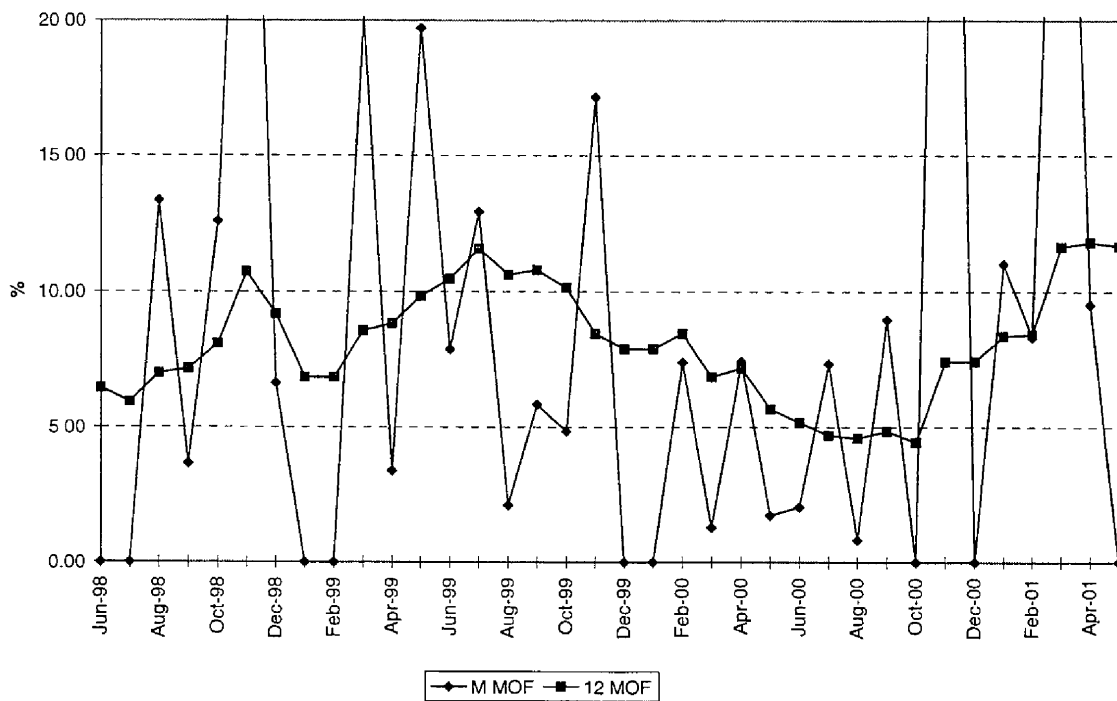
MAINTENANCE OUTAGE FACTOR



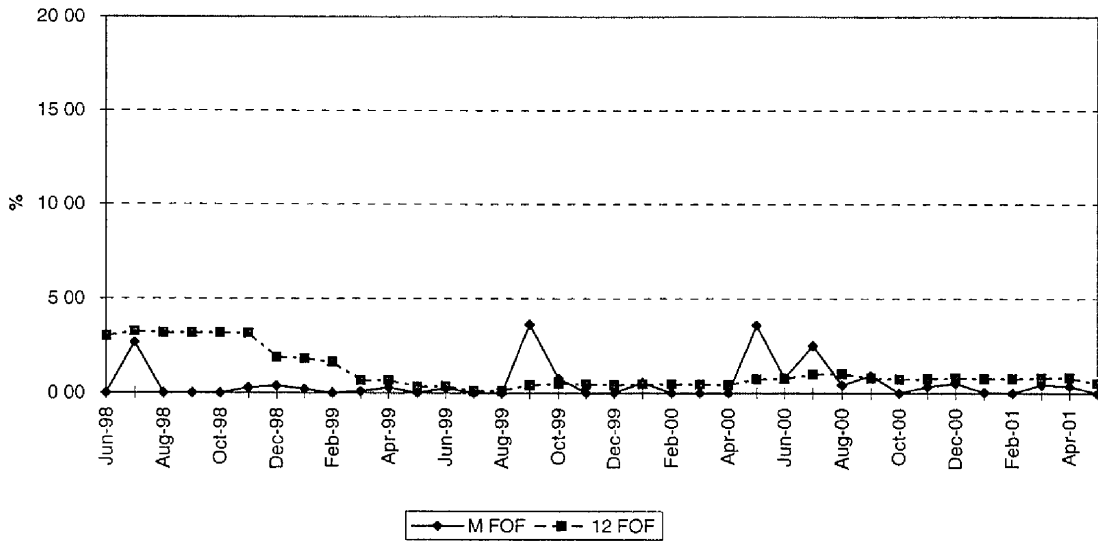
PMT 1 FORCED OUTAGE FACTOR



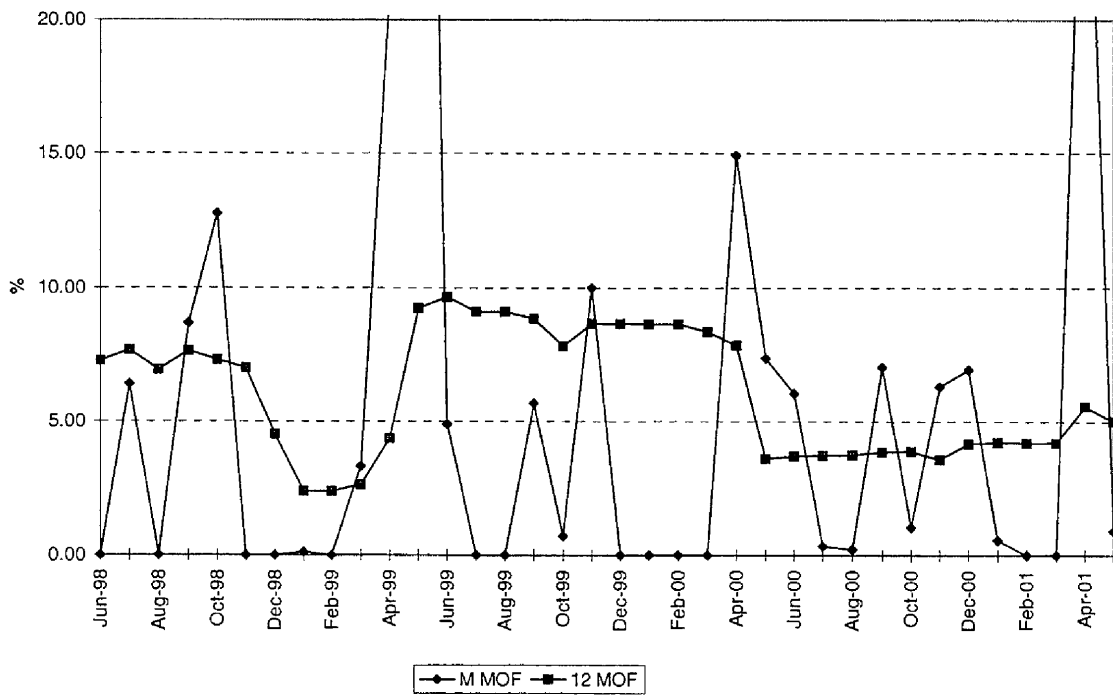
MAINTENANCE OUTAGE FACTOR



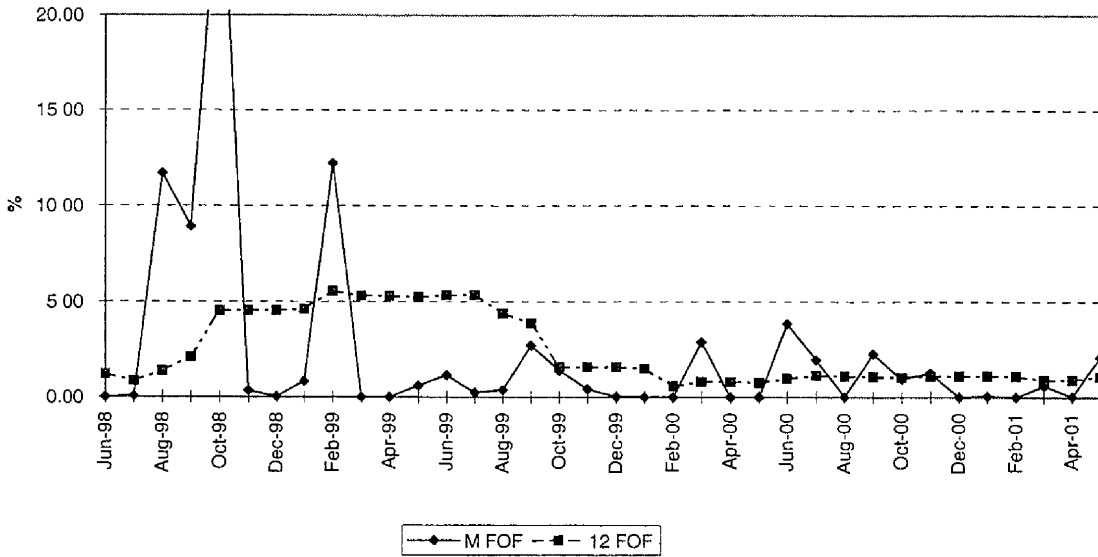
PMT 2 FORCED OUTAGE FACTOR



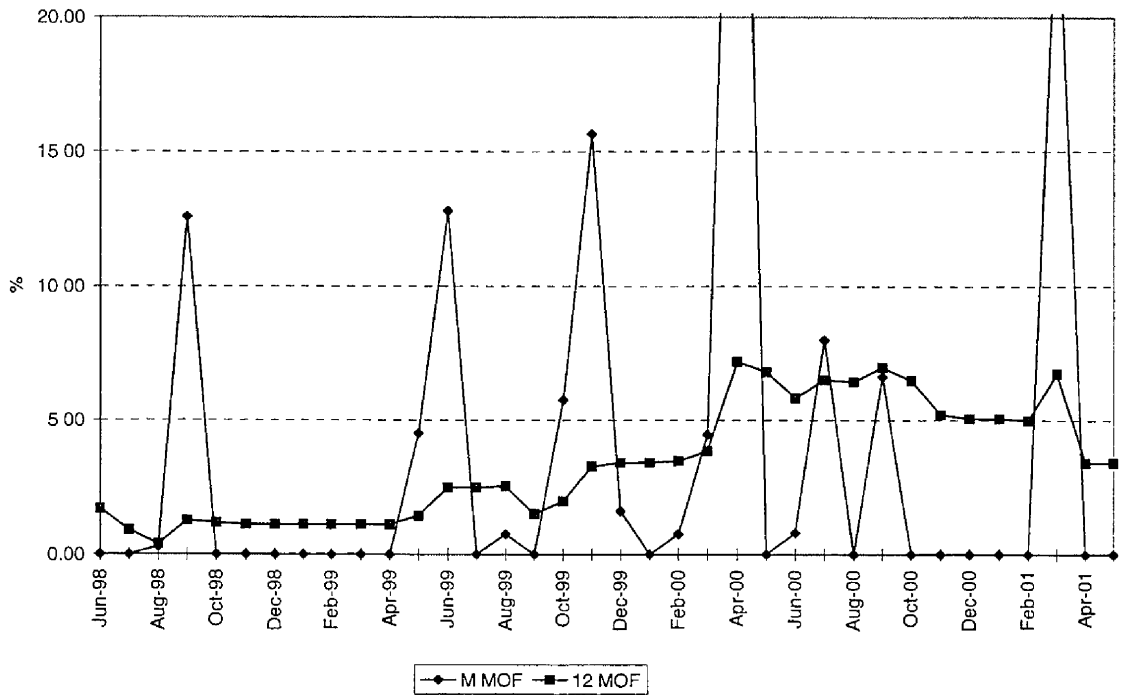
MAINTENANCE OUTAGE FACTOR



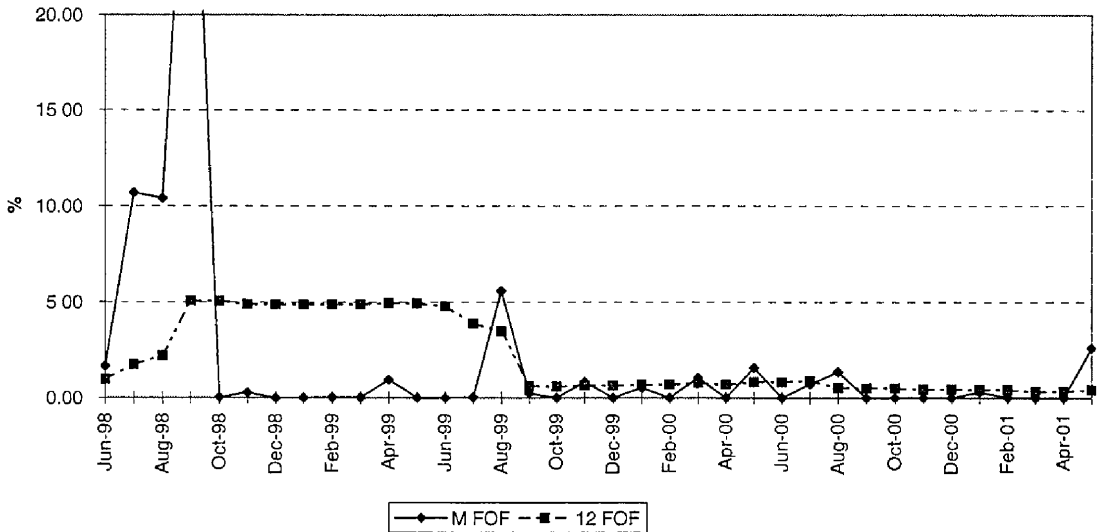
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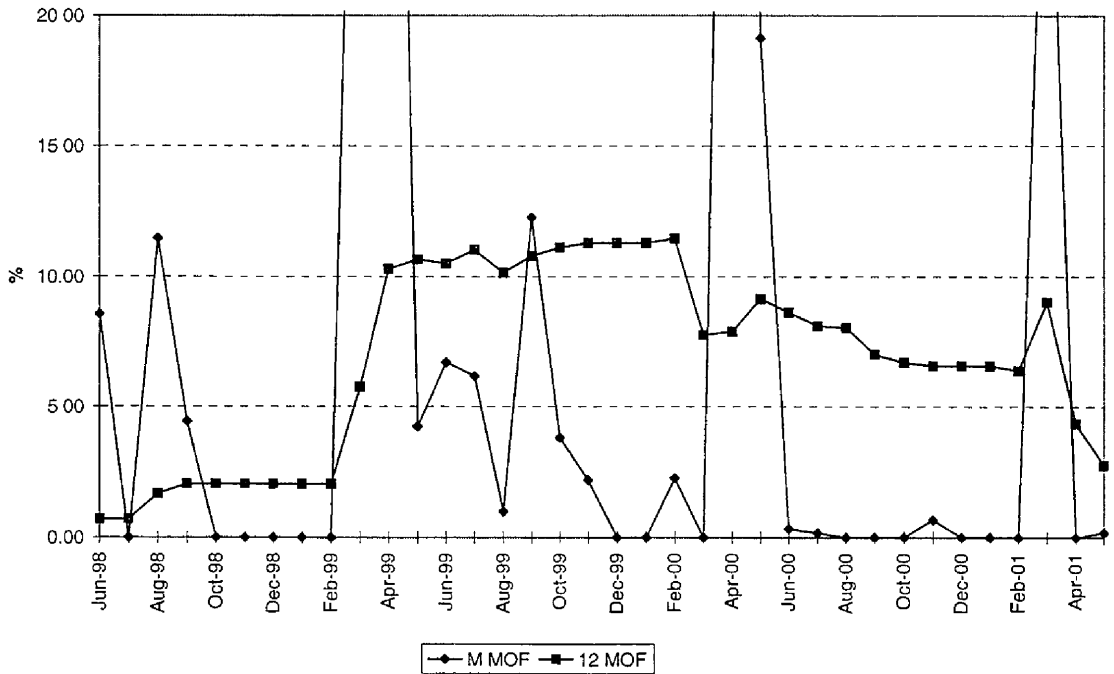
MAINTENANCE OUTAGE FACTOR



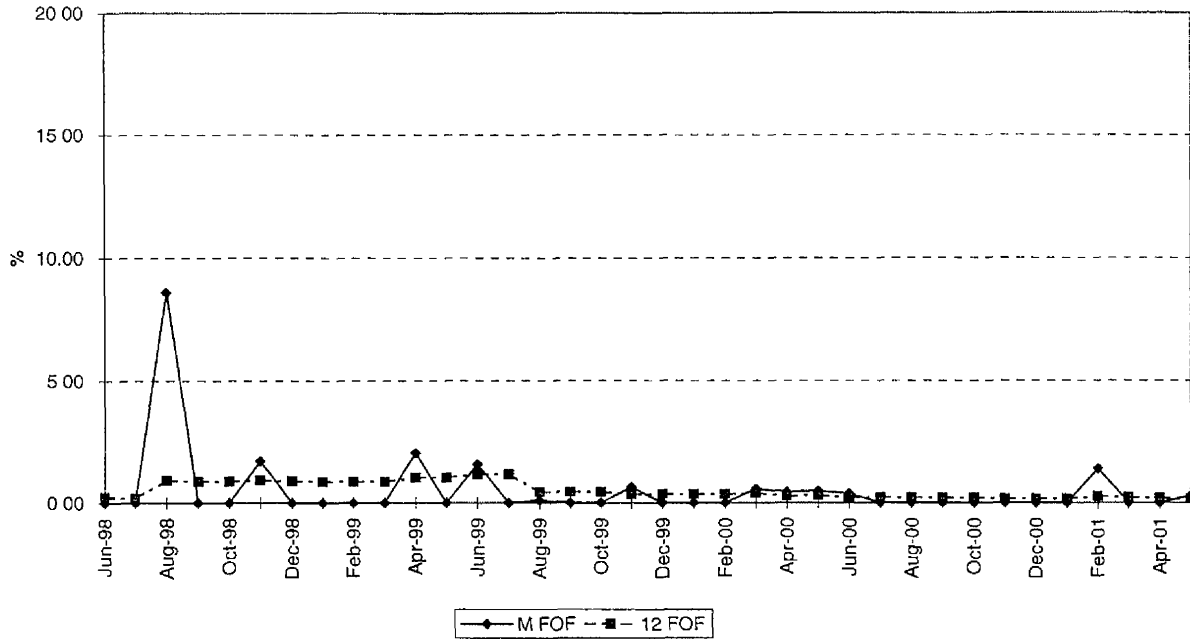
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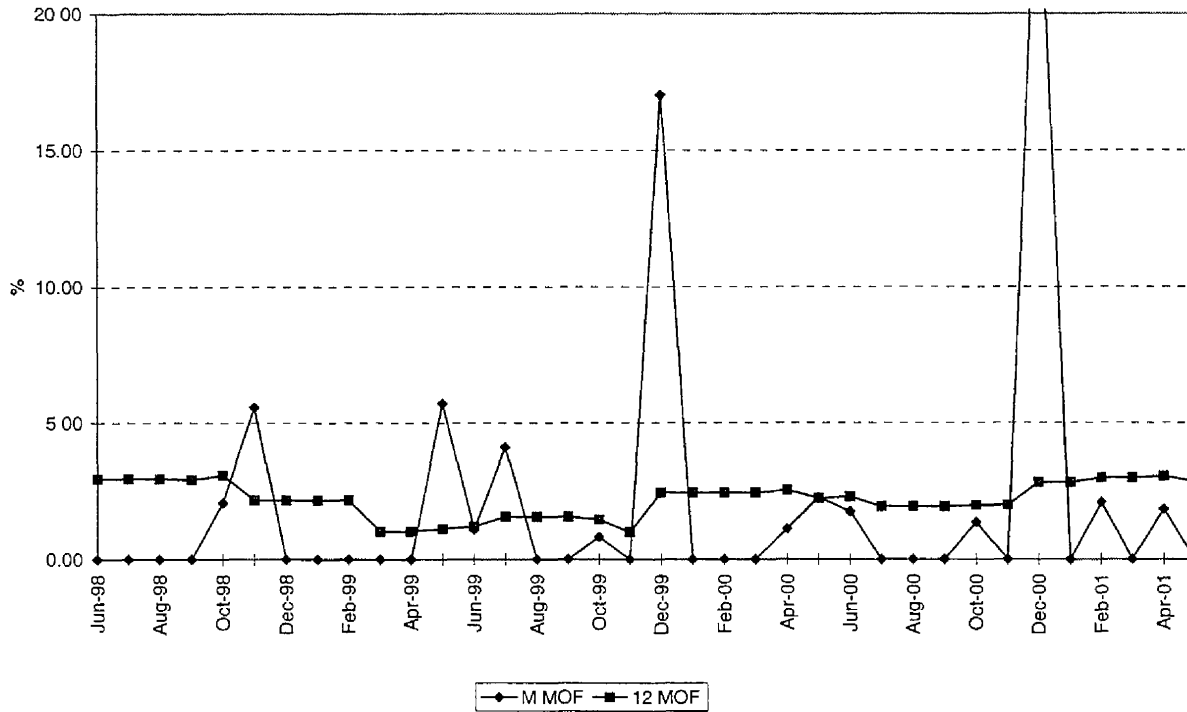
MAINTENANCE OUTAGE FACTOR



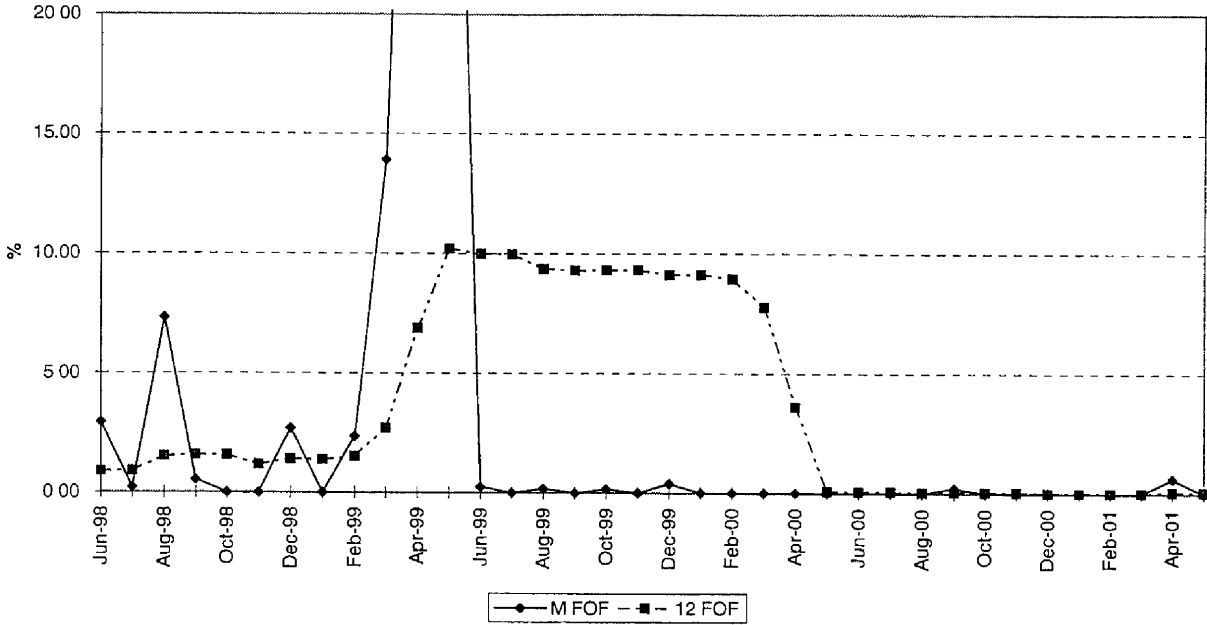
PMG 3 FORCED OUTAGE FACTOR



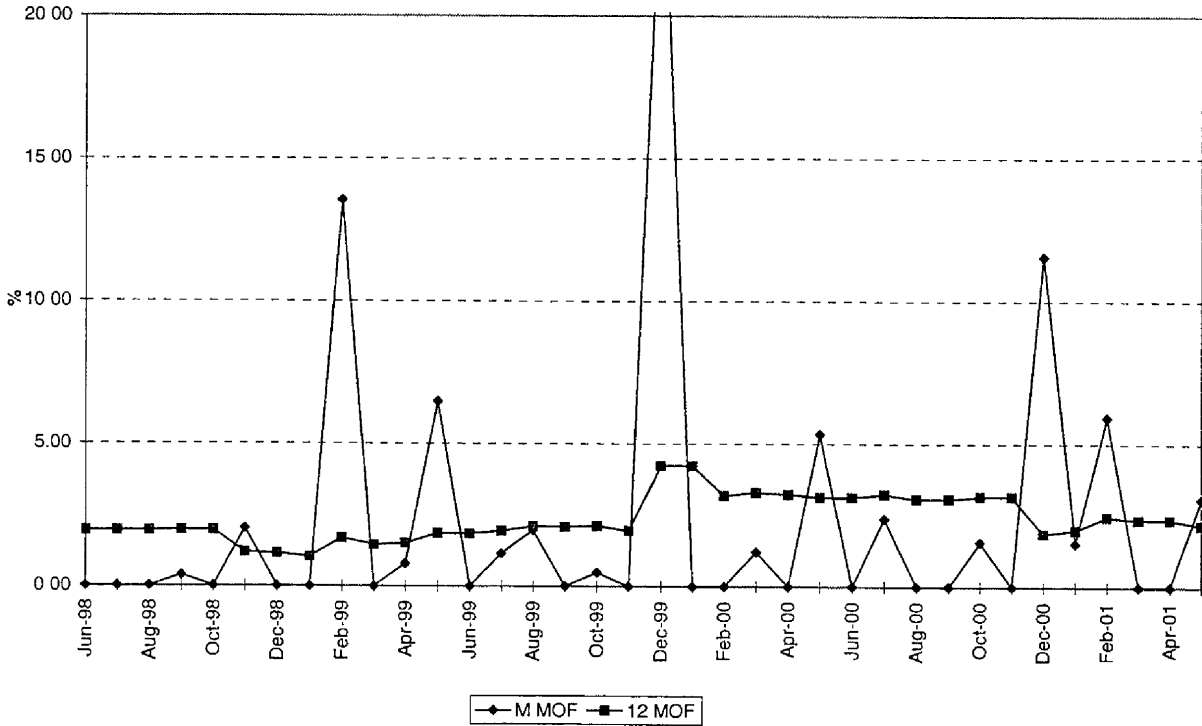
MAINTENANCE OUTAGE FACTOR



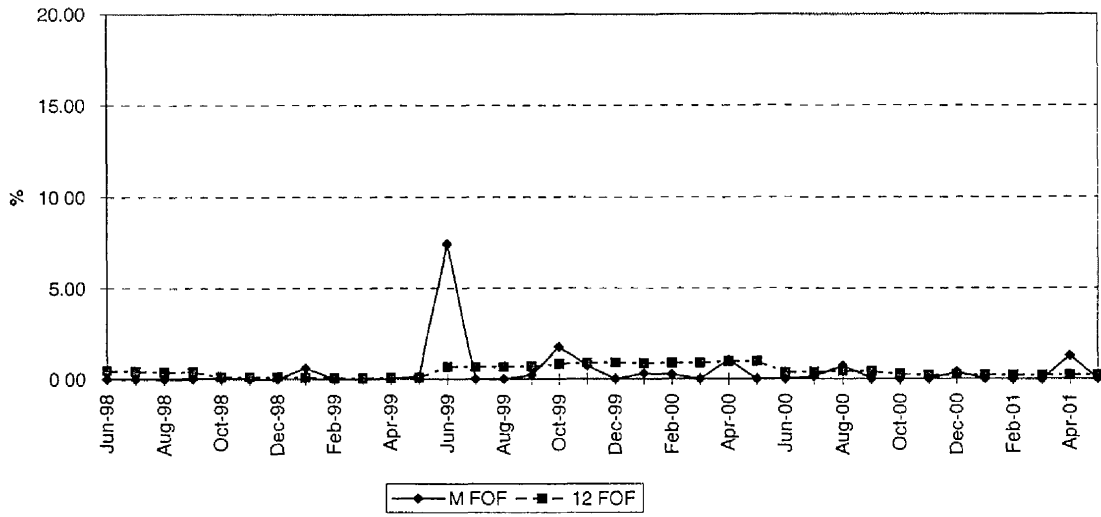
PMG 4 FORCED OUTAGE FACTOR



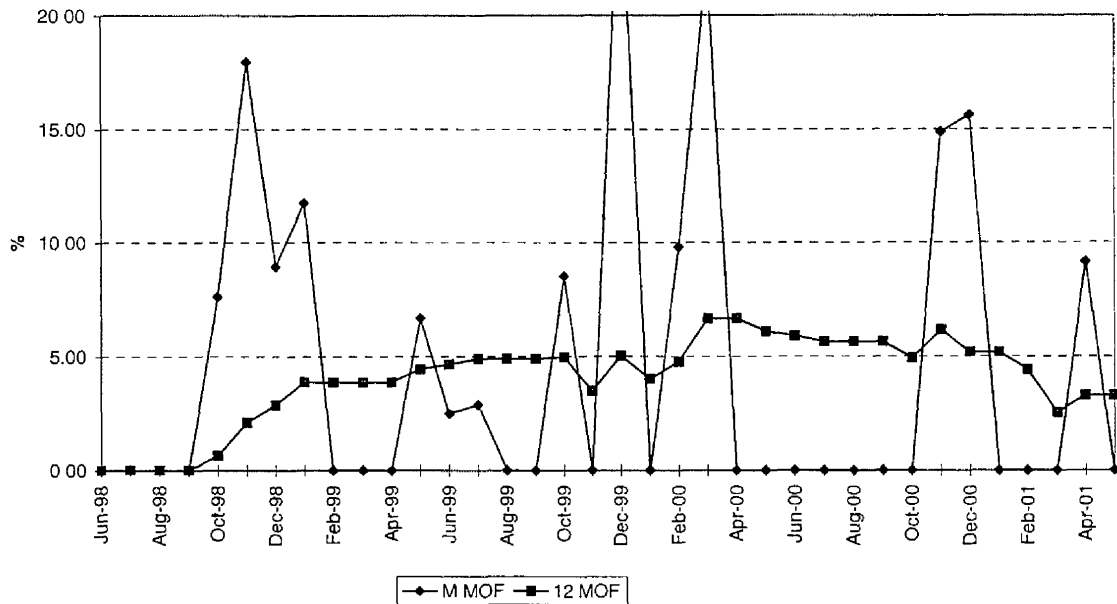
MAINTENANCE OUTAGE FACTOR



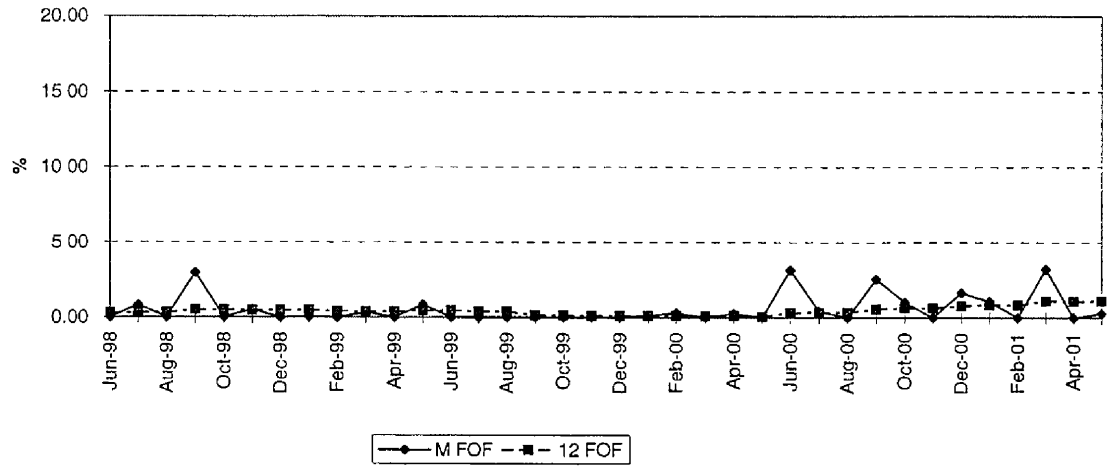
PPE 3 FORCED OUTAGE FACTOR



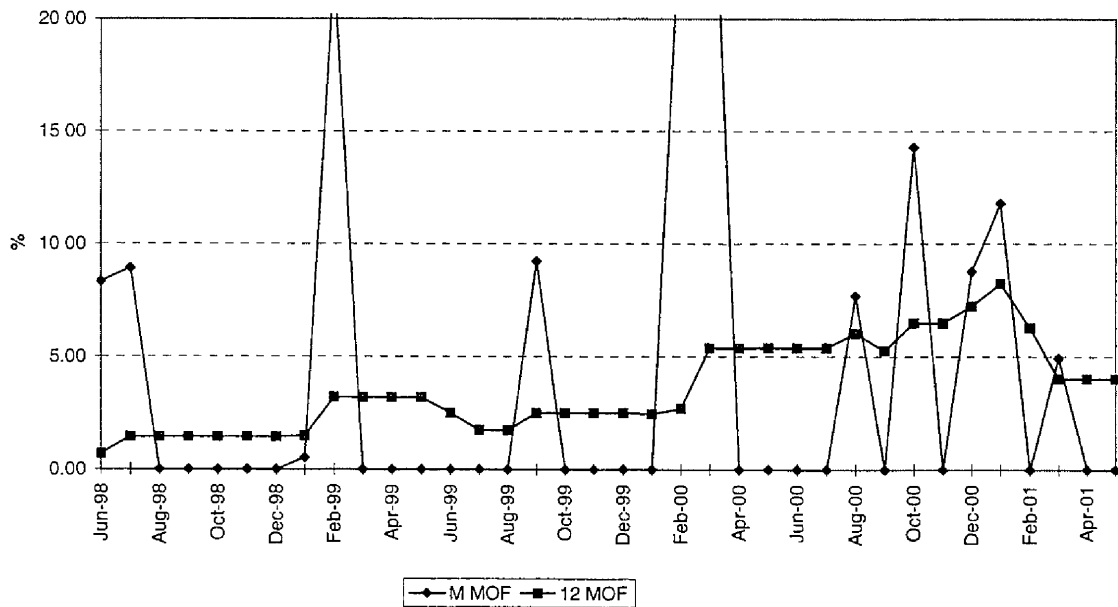
MAINTENANCE OUTAGE FACTOR



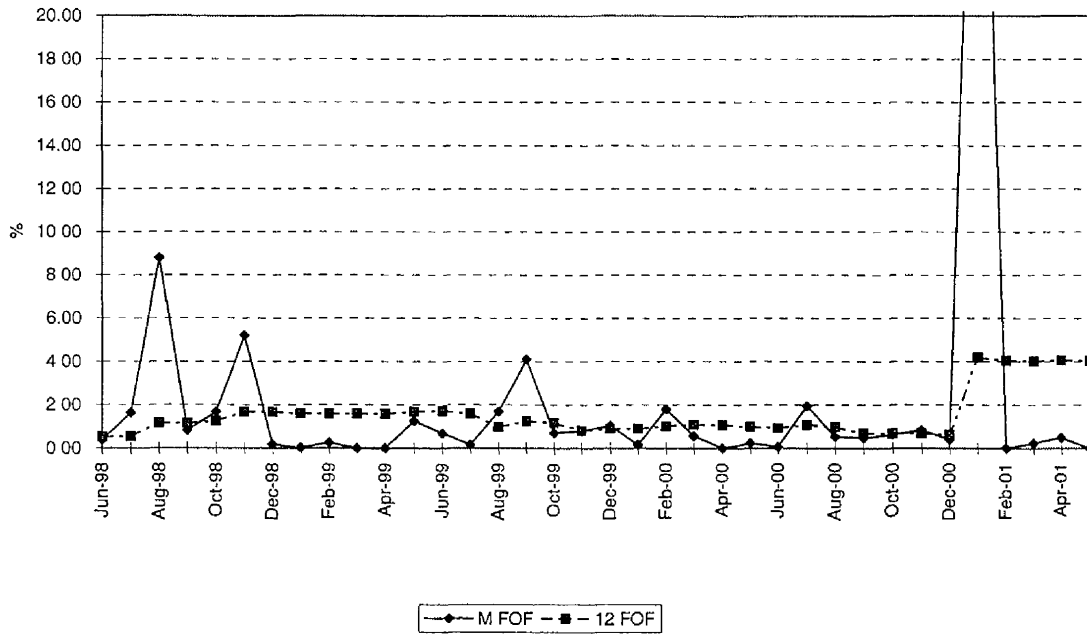
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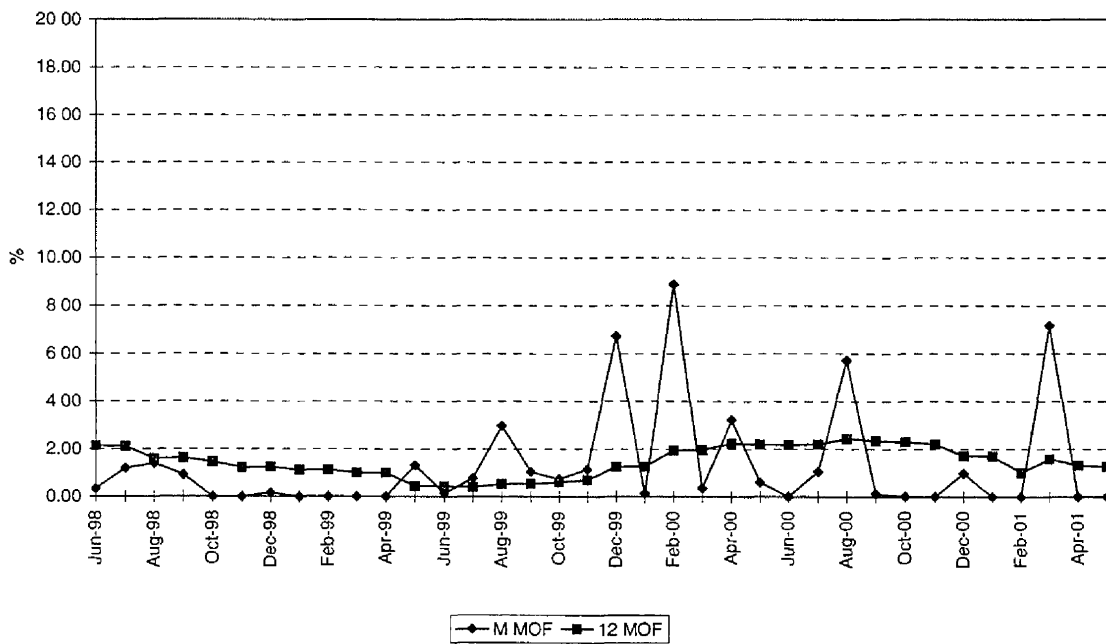
MAINTENANCE OUTAGE FACTOR



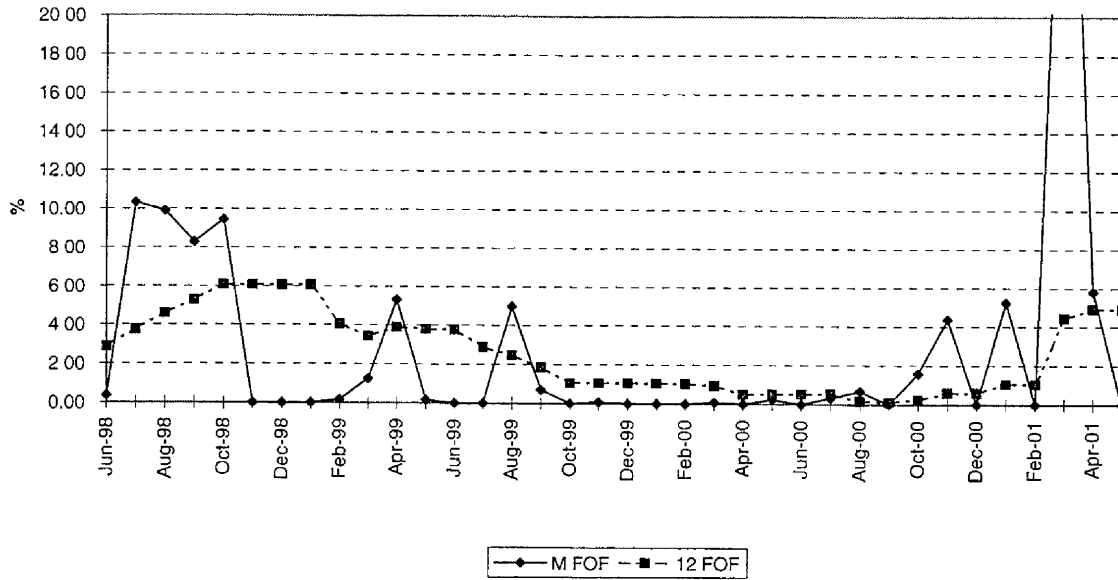
PPN 1 FORCED OUTAGE FACTOR



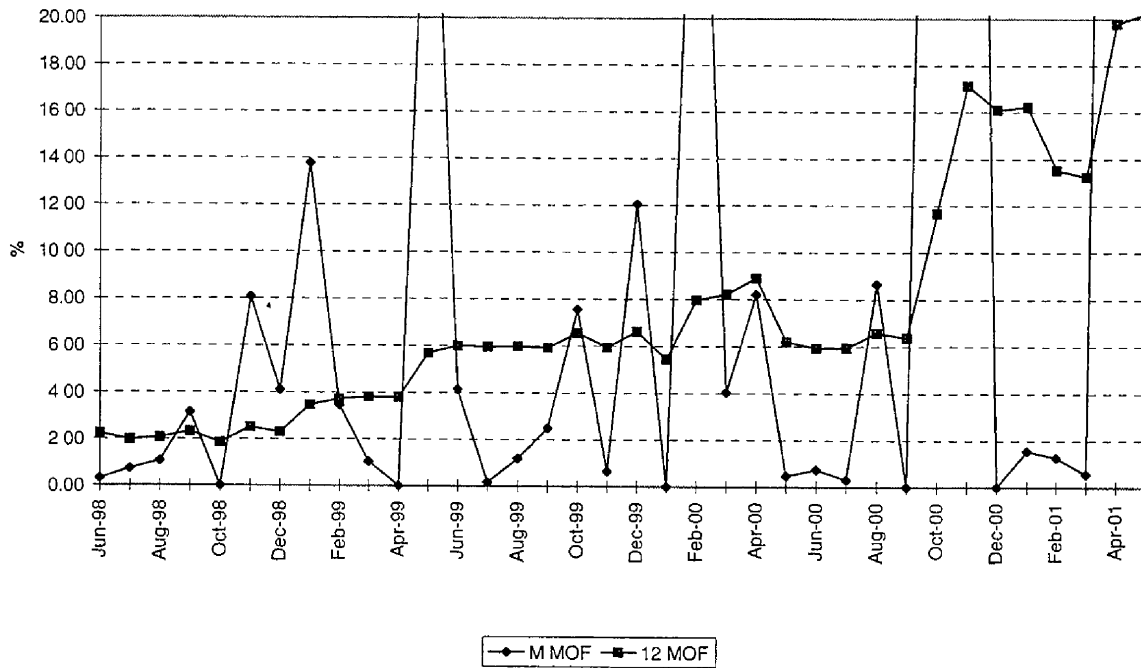
MAINTENANCE OUTAGE FACTOR



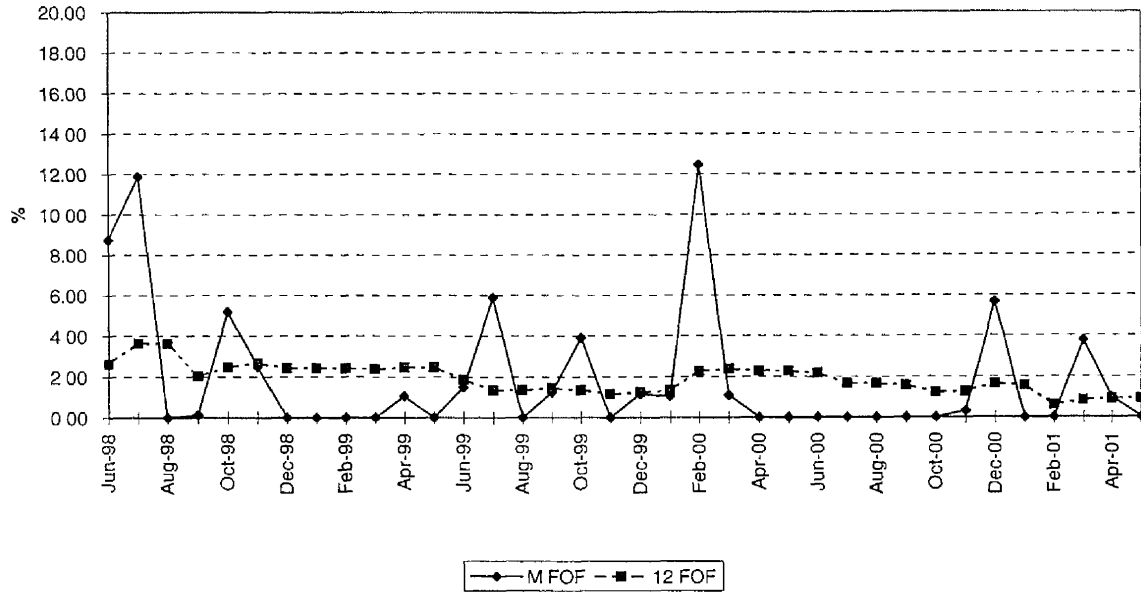
PRV 3 FORCED OUTAGE FACTOR



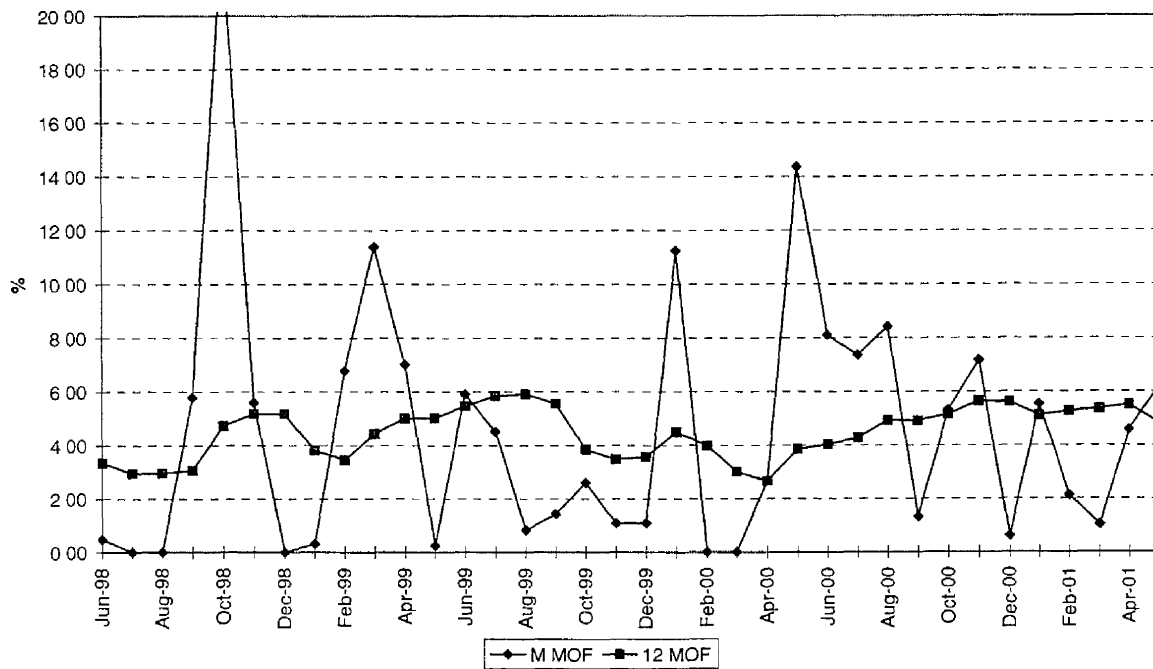
MAINTENANCE OUTAGE FACTOR



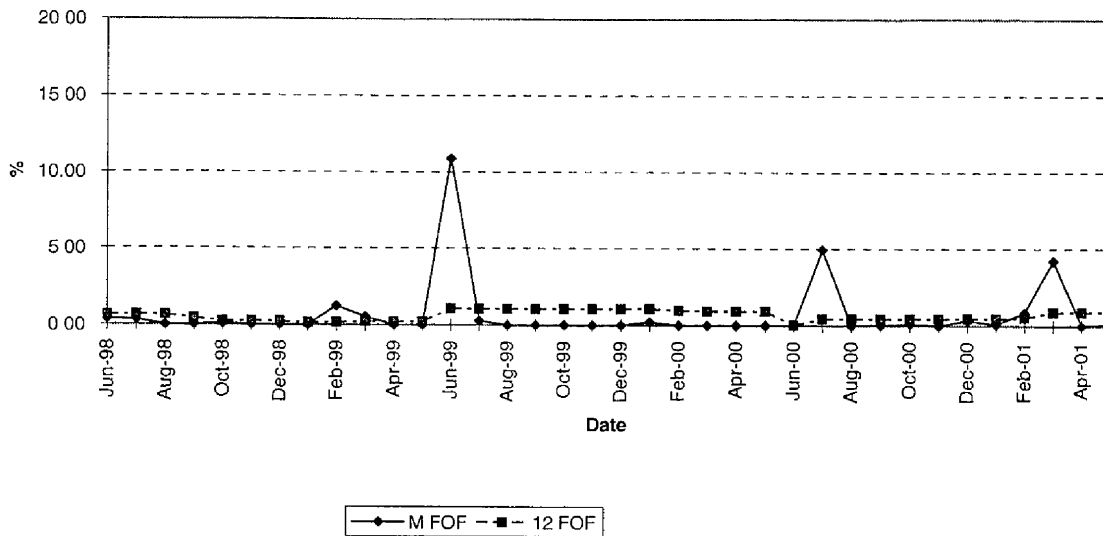
PRV 4 FORCED OUTAGE FACTOR



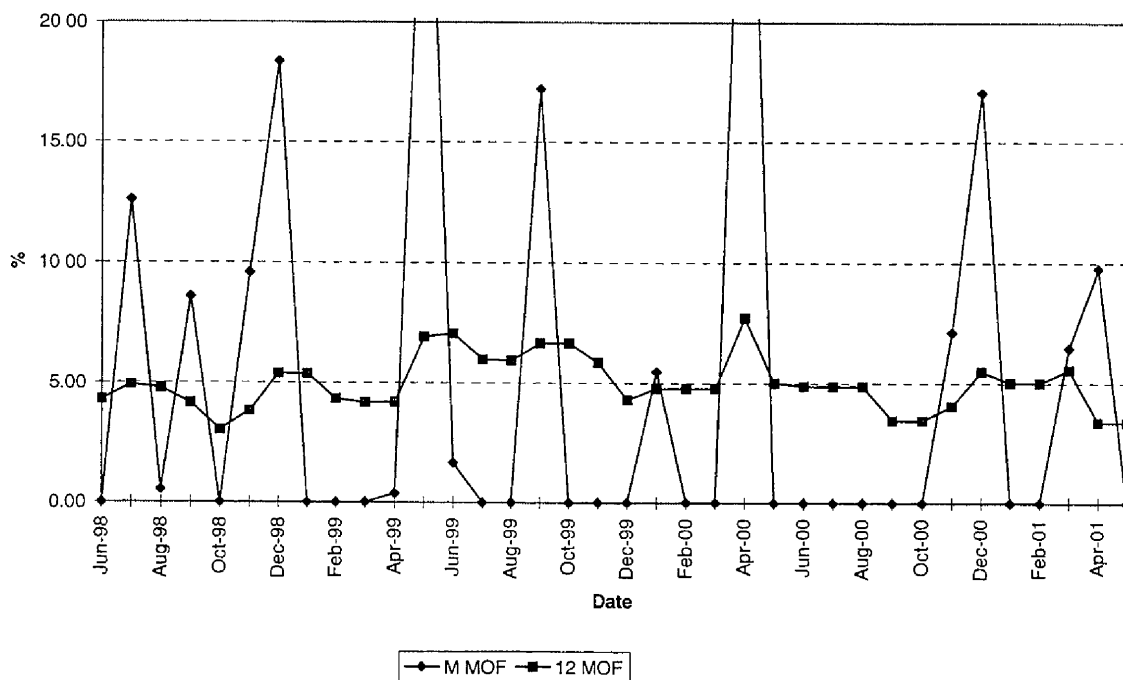
MAINTENANCE OUTAGE FACTOR



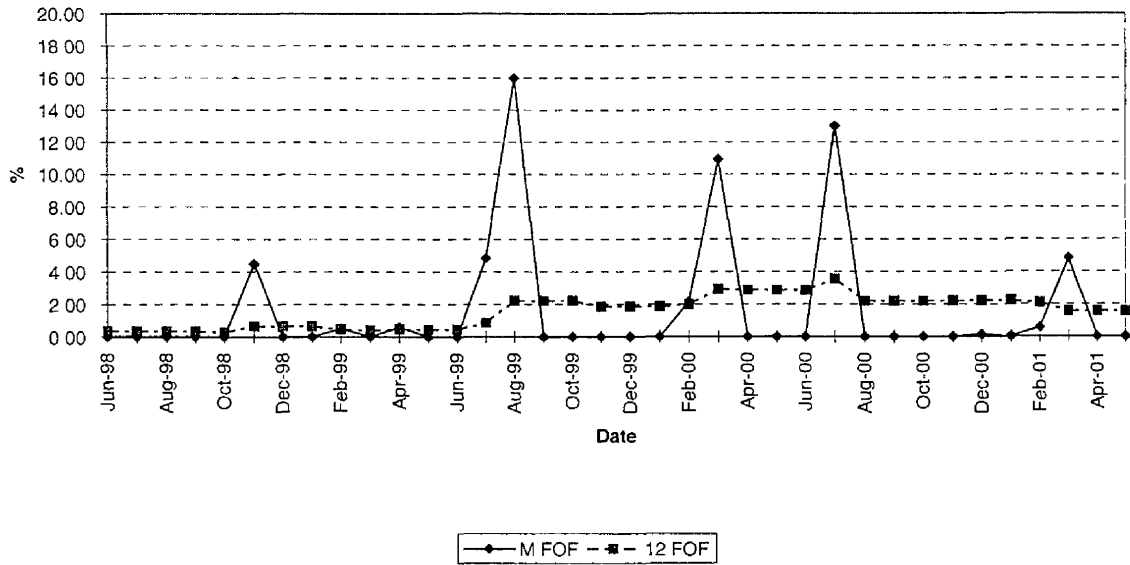
PTP 1 FORCED OUTAGE FACTOR



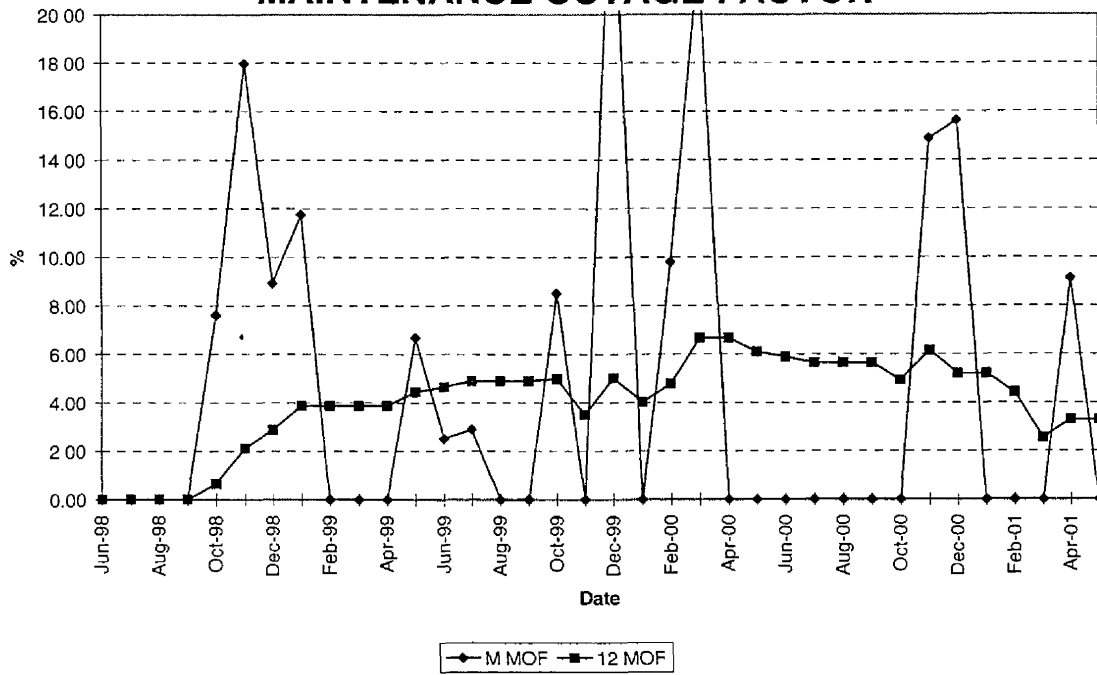
MAINTENANCE OUTAGE FACTOR



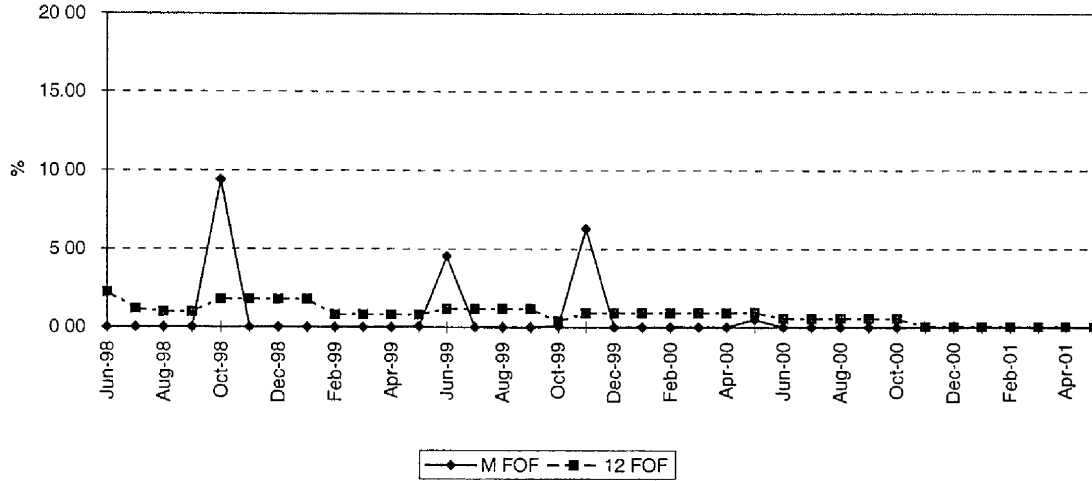
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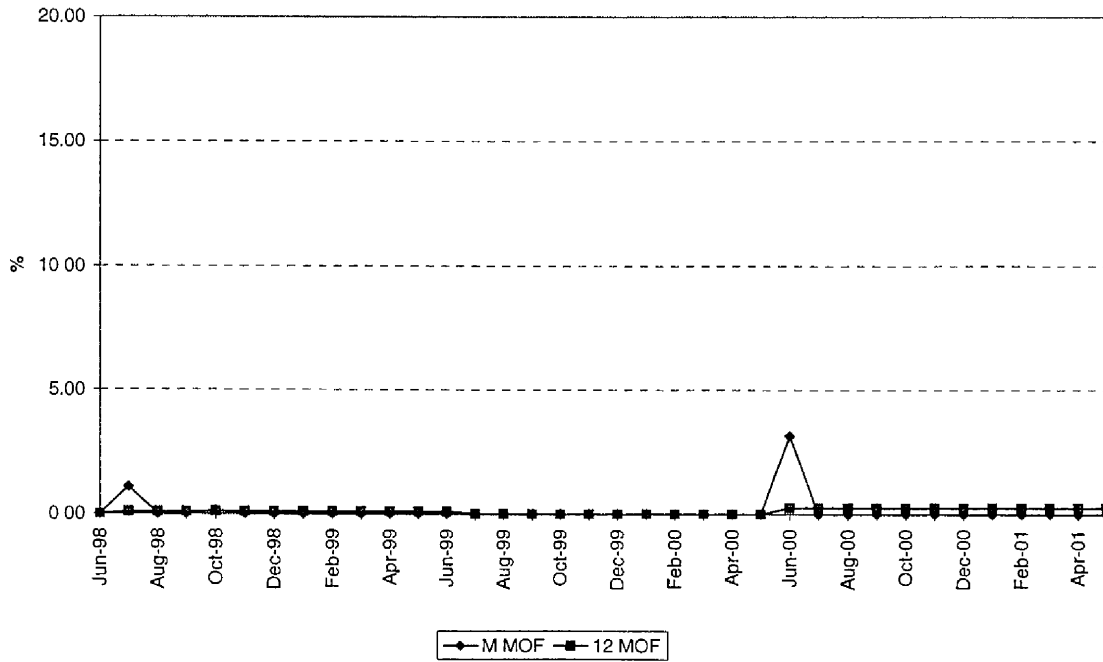
MAINTENANCE OUTAGE FACTOR



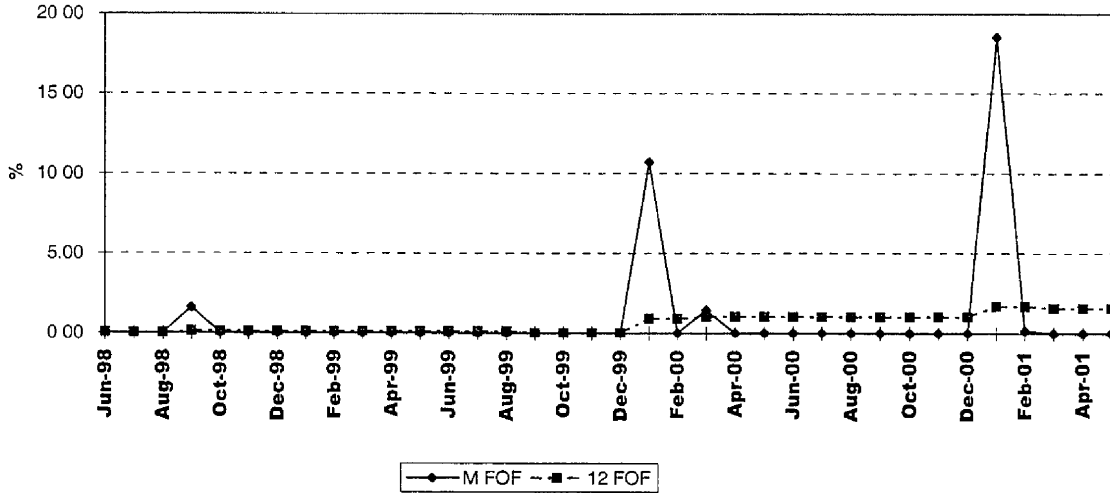
PTN 3 FORCED OUTAGE FACTOR



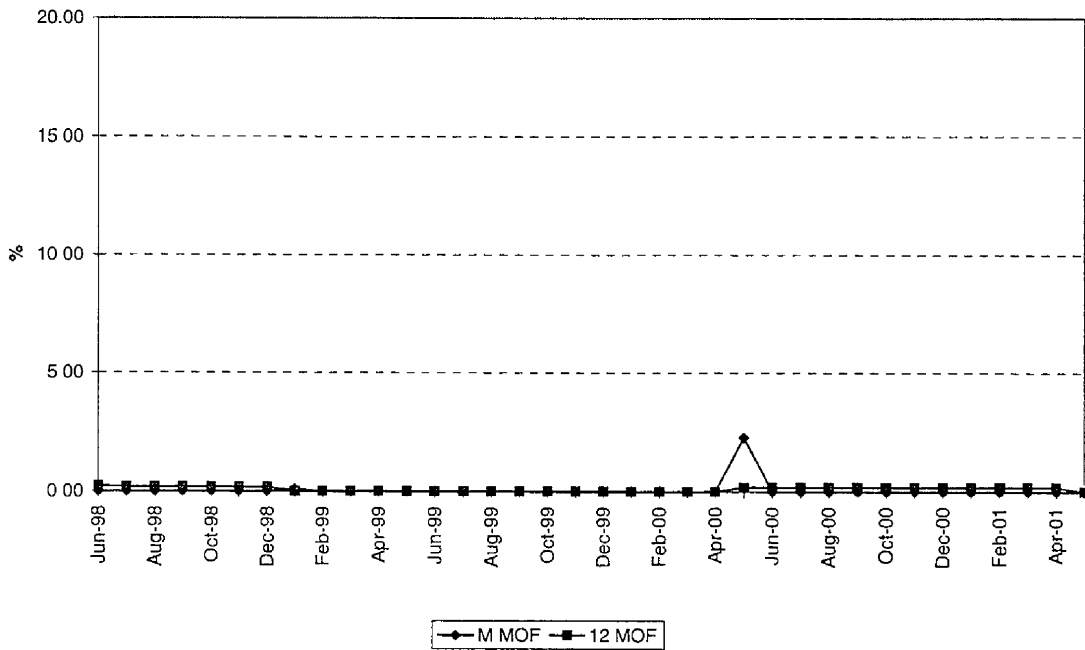
MAINTENANCE OUTAGE FACTOR



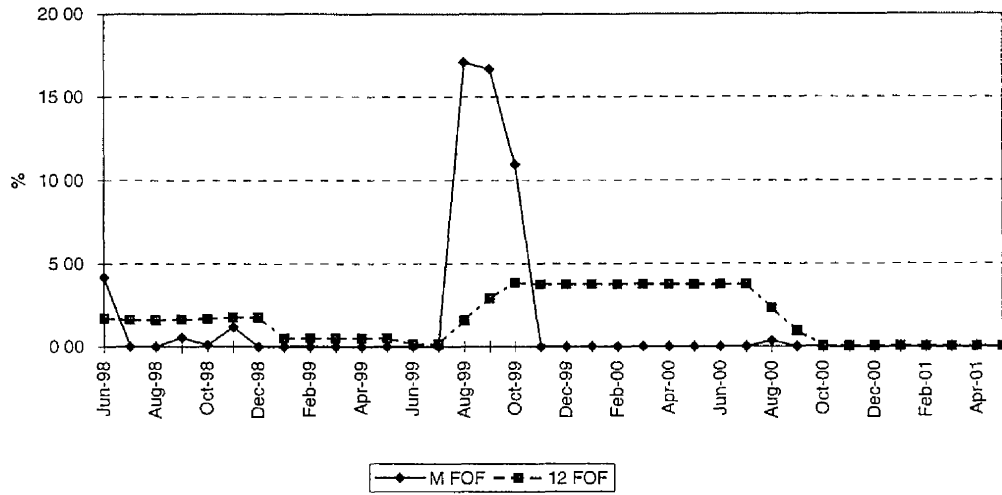
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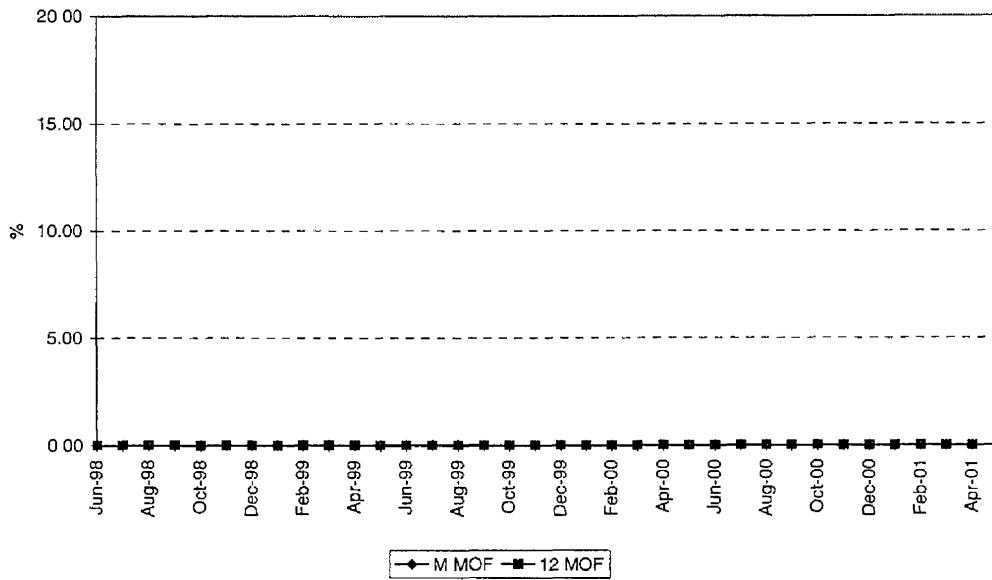
MAINTENANCE OUTAGE FACTOR



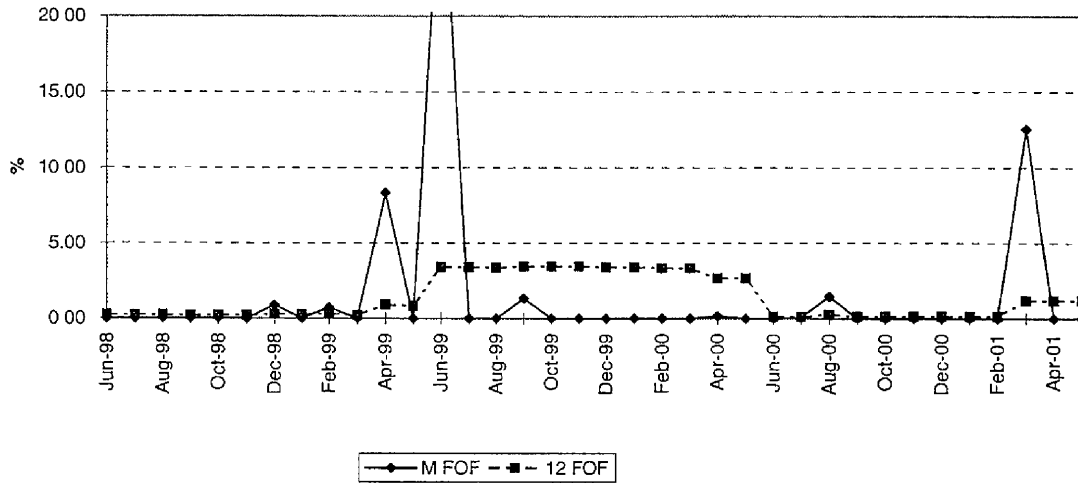
PSL 1 FORCED OUTAGE FACTOR



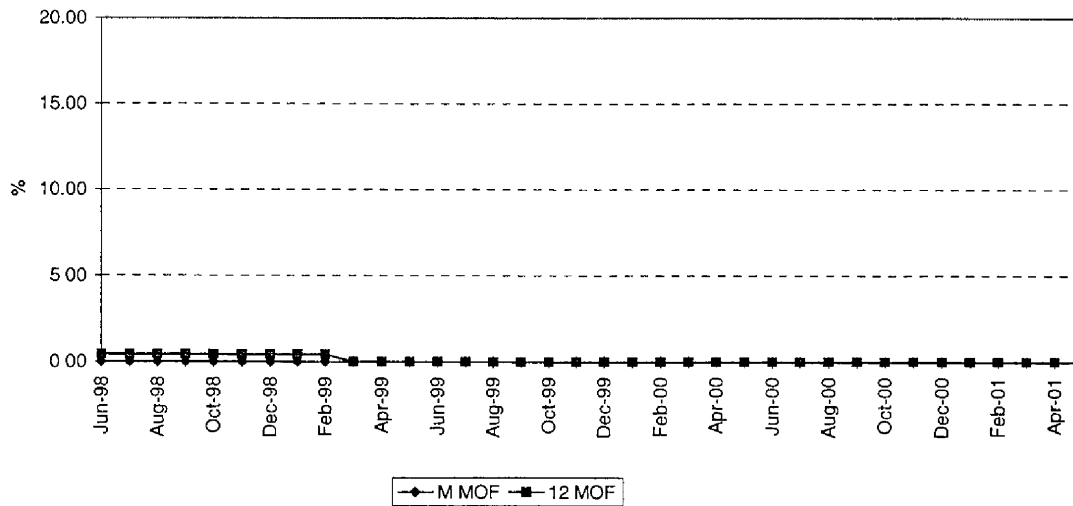
MAINTENANCE OUTAGE FACTOR



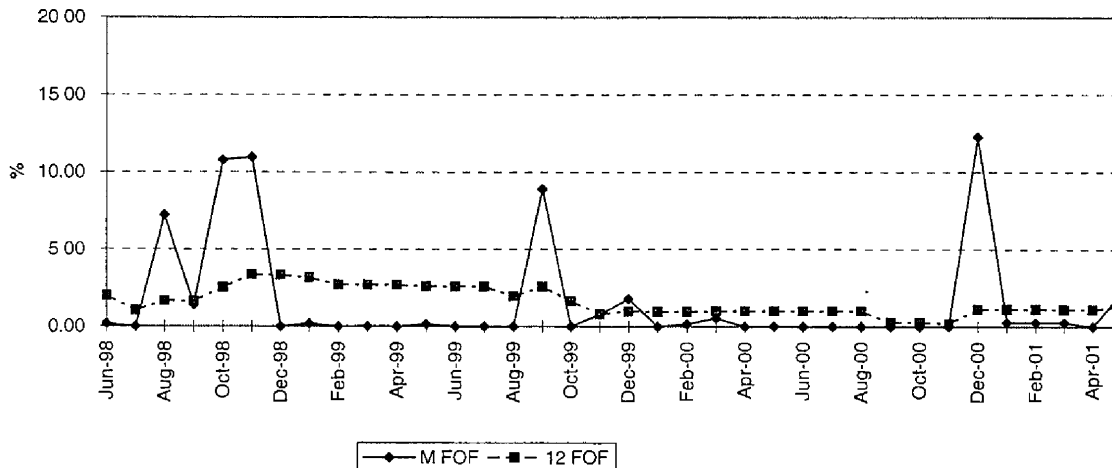
PSL 2 FORCED OUTAGE FACTOR



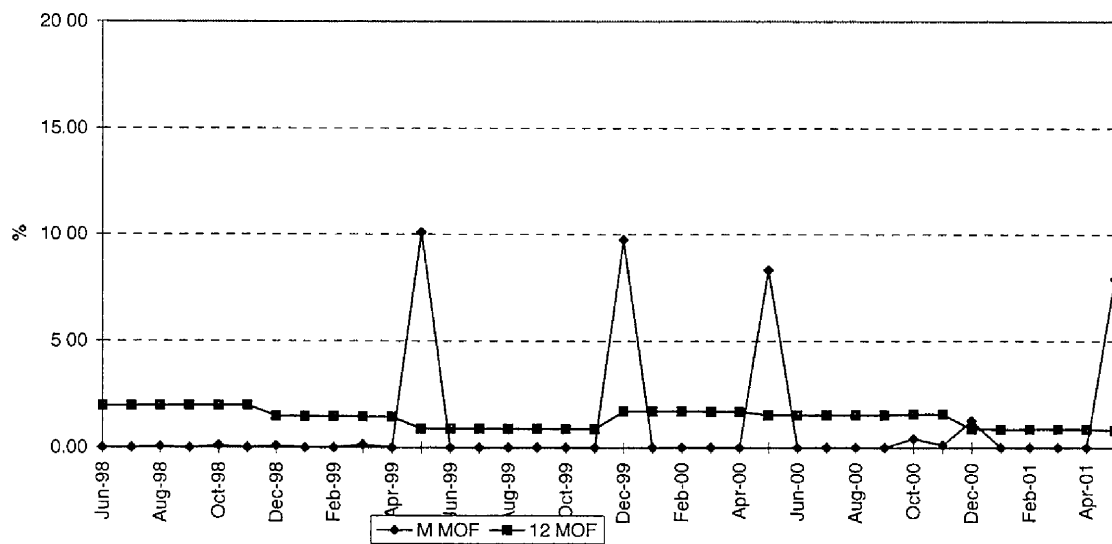
MAINTENANCE OUTAGE FACTOR



PSG 4 FORCED OUTAGE FACTOR



MAINTENANCE OUTAGE FACTOR



PLANNED OUTAGE SCHEDULE (ESTIMATED)

FLORIDA POWER & LIGHT COMPANY

PERIOD OF: JANUARY THROUGH DECEMBER, 2002

<u>PLANT/UNIT</u>	<u>PLAN OUTAGE</u>	<u>REASON FOR OUTAGE</u>	<u>LR MW</u>
Cape Canaveral 1	NONE		
Cape Canaveral 2	04/03/02 - 04/17/02	Minor Boiler/Turbine Valves Overhaul	394
Lauderdale 4	03/09/02 - 03/18/02	Combustor inspection	440
Lauderdale 5	09/28/02 - 10/07/02	Combustor inspection	422
Manatee 1	04/15/02 - 05/12/02	IP/Travel Screens	798
Manatee 2	04/20/02 - 05/19/02	Boiler Overhaul	798
Martin 1	11/30/02 - 12/15/02	Boiler Overhaul	833
Martin 2	03/02/02 - 03/17/02	Boiler Overhaul	821
Martin 3	NONE		
Martin 4	04/20/02 - 05/14/02	CT-B rotor change	448
Martin 4	10/01/02 - 10/08/02	CT-A combustor inspection - 50% CURT	224
Port Everglades 3	NONE		
Port Everglades 4	11/02/02 - 12/01/02	Major Boiler/Turbine Valves	404
Putnam 1	10/26/02 - 11/30/02	GT1 Overhaul/GT2 Combustor Insp-50% Curt	125
Riviera 3	NONE		
Riviera 4	NONE		
Turkey Point 1	11/30/02 - 12/27/02	Boiler Overhaul	398
Turkey Point 2	NONE		
Turkey Point 3	NONE		
Turkey Point 4	03/25/02 - 04/24/02	Refueling Overhaul	717
St. Lucie 1	09/30/02 - 10/30/02	Refueling Overhaul	839
St. Lucie 2	NONE		
Scherer 4	11/09/02 - 12/22/02	Tube Shields/Pulverizer	643