



ORIGINAL

Public Service Commission

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

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AUG - 6 PM 2:18
COMMISSION CLERK

DATE: August 5, 2003
TO: Blanca S. Bayó, Commission Clerk and Administrative Services Director
FROM: Division of Auditing and Safety (Ruehl) *Ruehl*
RE: Docket No. 030623-EI - Complaints by Southeastern Utility Services, Inc., on Behalf of Various Customers, against Florida Power & Light Company concerning Thermal Demand Meter Error

Please place the following spreadsheets in the above docket file.

- List of Thermal Demand Meters tested by Florida Power and Light and witnessed by Commission Engineers.
- List of Thermal Demand Meters re-tested by Florida Power and Light as requested by George Brown, Southeastern Utility Services, Inc. and witnessed by Commission Engineers.

JR:dr

Attachment

cc: Without Attachments

- Tim Devlin
- Joe Jenkins
- Roland Floyd
- Bill McNulty
- Cochran Keating
- Edward Mills
- Dan Hoppe

US _____
 AF _____
 MP _____
 OM _____
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 REC _____
 OTH _____

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COMMISSION CLERK
ADMINISTRATIVE SERVICES

DOCUMENT NO.
DT181-03
8/6/03

FPL - Thermal Demand Meter Tests Witnessed By Commission Engineers

Tests Performed At FPL Meter Facility - Miami

Date	FPL Symbol	Company Number	Serial Number	Creep Yes/No	SF A/F	SF A/L	SP A/F	SP A/L	SL A/F	SL A/L	WA A/F	WA A/L	KWD % Error A/F	KWD % Error A/L	Engineer	Comments
11/14/02	1V	39143	L030589143	N	99.92	99.92	99.63	99.63	99.6	99.6	99.79	99.79	-0.82	-0.82	*	
11/14/02	1V	32073	L024913252	N	99.82	99.82	99.24	99.24	98.49	98.49	99.46	99.46	1.46	1.46	*	
11/14/02	1V	52113	L017939670	N	100.23	100.23	99.72	99.72	100.27	100.27	100.09	100.09	1.46	1.46	*	
11/14/02	1V	73022	L018013022	N	99.78	99.78	99.06	99.06	97.21	97.21	99.21	99.21	-3.1	-3.1	*	
11/14/02	1V	77776	L029487776	N	100.02	100.02	99.53	99.53	99.23	99.23	99.77	99.77	-0.82	-0.82	*	
11/14/02	1V	69475	L031069475	N	99.65	99.65	99.43	99.43	99.27	99.27	99.53	99.53	-1.68	-1.68	*	
11/14/02	1V	37323	L027477323	N	100.29	100.29	100.13	100.13	99.46	99.46	100.13	100.13	-3.68	-3.68	*	
11/14/02	1V	39125	L026809125	N	99.92	99.92	99.47	99.47	98.59	98.59	99.59	99.59	-0.82	-0.82	*	
11/14/02	1V	37682	L029877682	N	100.02	100.02	99.72	99.72	99.08	99.08	99.8	99.8	-2.53	-2.53	*	
11/14/02	1V	78756	L020508756	N	99.33	99.33	98.66	98.66	98.77	98.77	99.06	99.06	1.17	1.17	*	
11/14/02	1V	30423	L023491189	N	100.31	100.31	99.78	99.78	99.43	99.43	100.03	100.03	-1.96	-1.96	*	
11/14/02	1V	42088	L017957685	N	100.28	100.28	99.14	99.14	99.16	99.16	99.79	99.79	0	0	*	
11/14/02	1V	32656	L019071028	N	51.66	51.66	51.24	51.24	49.89	49.89	51.29	51.29	-33.39	-33.39	*	S2, dead "A" phase stator
11/14/02	1V	38437	L024548437	N	100.1	100.1	99.95	99.95	99.3	99.3	99.94	99.94	-6.82	-6.82	*	
11/14/02	1V	37720	L017957720	N	100.51	100.51	99.57	99.57	100.58	100.58	100.25	100.25	-3.1	-3.1	*	
11/14/02	1V	32139	L017939565	N	99.77	99.77	99.1	99.1	98.67	98.67	99.42	99.42	-1.96	-1.96	*	
11/14/02	1V	32703	L024548473	N	100.3	100.3	100.22	100.22	98.98	98.98	100.09	100.09	-1.96	-1.96	*	
11/14/02	1V	39247	L023679247	N	100.27	100.27	99.67	99.67	99.57	99.57	100	100	0.31	0.31	*	
11/14/02	1V	57691	L017957691	N	100.37	100.37	99.67	99.67	99.63	99.63	100.06	100.06	-2.53	-2.53	*	
11/14/02	1V	89671	L030309671	N	100.23	100.23	99.96	99.96	100.15	100.15	100.14	100.14	-1.1	-1.1	*	
12/10/02	1V	5211D	L028205211	N	100.41	100.41	99.76	99.76	99.73	99.73	100.13	100.13	-1.55	-1.55	CW	
12/10/02	1V	7745D	L024205745	N	100.18	100.18	100.14	100.14	99.27	99.27	100.04	100.04	-1.12	-1.12	CW	
12/10/02	1V	7032D	L036292032	N	99.97	99.97	100.07	100.07	100.74	100.74	100.11	100.11	2.01	2.01	CW	
12/10/02	1V	5216D	L033439216	N	100.09	100.09	99.79	99.79	99.48	99.48	99.92	99.92	2.44	2.44	CW	
12/10/02	1V	7014D	L036292014	N	100.14	100.14	99.91	99.91	99.39	99.39	99.97	99.97	2.03	2.03	CW	
12/10/02	1V	5885D	L034219885	N	99.91	99.91	99.76	99.76	99.44	99.44	99.8	99.8	2.73	2.73	CW	
12/10/02	1V	5025D	L024206025	N	100.2	100.2	99.74	99.74	99.34	99.34	99.95	99.95	1.73	1.73	CW	
12/10/02	1V	7001D	L023083911	N	100.44	100.44	100.08	100.08	97.65	97.65	99.94	99.94	-1.0	-1.0	CW	
12/10/02	1V	59210	L030589210	N	99.23	99.23	98.22	98.22	98.29	98.29	98.81	98.81	1.58	1.58	CW	
12/10/02	1V	5249D	L274477249	N	100.05	100.05	99.26	99.26	98.63	98.63	99.62	99.62	0.73	0.73	CW	
12/10/02	1V	5441D	L029072441	N	99.87	99.87	99.7	99.7	99.92	99.92	99.83	99.83	2.78	2.78	CW	
12/10/02	1V	5443D	L029072443	N	99.46	99.46	99.65	99.65	99.06	99.06	99.46	99.46	2.78	2.78	CW	
12/10/02	1V	7505D	L032968505	N	100.36	100.36	99.99	99.99	99.38	99.38	100.11	100.11	1.93	1.93	CW	
12/10/02	1V	7942D	L024205942	N	99.91	99.91	99.65	99.65	97.26	97.26	99.45	99.45	0.78	0.78	CW	
12/10/02	1V	5898D	L023864898	N	99.95	99.95	99.61	99.61	99.36	99.36	99.77	99.77	1.82	1.82	CW	
12/10/02	1V	5192D	L028205192	N	100.12	100.12	100.05	100.05	100.58	100.58	100.17	100.17	2.68	2.68	CW	
12/10/02	1V	5159D	L034344159	N	100.2	100.2	100.13	100.13	99.31	99.31	100.05	100.05	3.1	3.1	CW	
12/10/02	1V	5221D	L028205221	N	100.25	100.25	100.22	100.22	99.8	99.8	100.18	100.18	-2.92	-2.92	CW	
12/10/02	1V	5887D	L034219887	N	99.85	99.85	99.69	99.69	98.59	98.59	99.62	99.62	3.25	3.25	CW	
12/10/02	1V	7019D	L036629019	N	100.74	100.74	100.9	100.9	100.62	100.62	100.77	100.77	-4.21	-4.21	CW	
12/10/02	1V	5774D	L020493774	N	99.51	99.51	99.49	99.49	99.58	99.58	99.52	99.52	-0.03	-0.03	CW	
02/26/03	1U	78293	L023128293	N	99.86	99.86	99.8	99.8	99.03	99.03	99.72	99.72	2.02	2.02	CW	
02/26/03	1U	71867	L023321857	N	99.85	99.85	99.62	99.62	99.08	99.08	99.67	99.67	5.65	5.65	CW	
02/26/03	1U	77484	L027287484	N	99.68	99.68	99	99	98.32	98.32	99.29	99.29	-0.01	-0.01	CW	
02/26/03	1U	56944	L019346944	N	100.28	100.28	99.45	99.45	99.31	99.31	99.89	99.89	5.82	5.82	CW	

(*) All 3 engineers, E. Rencurrell, F. Paez, & C. Williams;

CW = Clinton Williams; FP = Frank Paez

A/F= As Found; A/L = As Left; SF = Series Full Load ; SP = Series Power Factor;
SL = Series Light Load ; WA = Weighted Average; KWD = Kilowatt Demand

DOCUMENT NO
07181-03(**) = Measurement not taken
8/6/03
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FPL - Thermal Demand Meter Tests Witnessed By Commission Engineers

Tests Performed At FPL Meter Facility - Miami

Date	FPL Symbol	Company Number	Serial Number	Creep Yes/No	SF A/F	SF A/L	SP A/F	SP A/L	SL A/F	SL A/L	WA A/F	WA A/L	KWD % Error A/F	KWD % Error A/L	Engineer	Comments
02/26/03	1V	59333	L01804033	N	99.93	99.93	99.56	99.56	99.59	99.59	99.98	99.98	-0.12	-0.12	CW	
02/26/03	1V	59333	L018989333	N	99.93	99.93	99.56	99.56	100.38	100.38	99.89	99.89	-0.15	-0.15	CW	
02/26/03	1V	74963	L023864963	N	100.24	100.24	100.48	100.48	99.36	99.36	100.18	100.18	3.77	3.77	CW	
02/26/03	1V	70077	L024640077	N	100.49	100.49	100.46	100.46	99.19	99.19	100.3	100.3	1.26	1.26	CW	
02/26/03	1U	79391	L018009391	N	100.53	100.53	100.27	100.27	99.6	99.6	100.32	100.32	3.65	3.65	CW	
02/26/03	1U	72446	L027542446	N	99.59	99.59	98.71	98.71	99.19	99.19	99.28	99.28	0.15	0.15	CW	
02/26/03	1U	52747	L018535051	N	100.23	100.23	98.97	98.97	99.65	99.65	99.78	99.78	1.82	1.82	CW	
02/26/03	1U	70633	L031070633	N	100.02	100.02	99.8	99.81	99.7	99.7	99.92	99.92	1.32	1.32	CW	
02/26/03	1U	71570	L013711570	N	99.8	99.8	100.36	100.36	99.2	99.2	99.88	99.88	-1.5	-1.5	CW	
02/26/03	1U	51401	L019346986	N	99.92	99.92	99.81	99.81	100.25	100.25	99.94	99.94	2.16	2.16	CW	
02/26/03	1U	75679	L018485679	N	99.96	99.96	99.34	99.34	98.74	98.74	99.61	99.61	0.98	0.98	CW	
02/26/03	1U	70868	L014728138	N	101.06	101.06	100.61	100.61	100.01	100.01	100.78	100.78	-3.17	-3.17	CW	
02/26/03	1U	71924	L019631924	N	99.94	99.94	99.6	99.61	99.1	99.1	99.72	99.72	-19.84	-19.84	CW	
02/26/03	1U	71993	L024639801	N	100	100	100	100	99.55	99.55	99.94	99.94	1.82	1.82	CW	
02/26/03	1U	53145	L023050939	N	100.49	100.49	100.66	100.66	100.3	100.3	100.51	100.51	-1.68	-1.68	CW	
02/26/03	1U	82230	L027542230	N	100.1	100.1	99.36	99.36	98.86	98.86	99.71	99.71	0.15	0.15	CW	
03/06/03	1V	89335	L018989335	N	100.43	100.43	99.69	99.69	99.6	99.6	100.1	100.1	-2.92	-2.92	FP	
03/06/03	1V	59726	L030309726	N	99.9	99.9	99.89	99.89	99.89	99.89	99.22	99.22	1.1	1.1	FP	
12/05/02	1V	57016	L029587016	N	51.71	51.71	51.45	51.45	52.03	52.03	51.68	51.68	37.96	37.96	FP	S2 Left side dead
01/10/03	1V	78326	L024548326	N	100.26	100.26	100.29	100.29	100.08	100.08	100.24	100.24	-4.44	-4.44	FP	
01/10/03	1V	50990	L018989264	N	51.39	51.39	51.27	51.27	49.90	49.90	51.15	51.15	18.41	18.41	FP	S2 Dead stator A phase
03/06/03	1V	59504	L030179504	N	99.62	99.62	98.72	98.72	99.33	99.33	99.32	99.32	2.39	2.39	FP	
03/06/03	1V	57679	L029877679	N	99.65	99.65	99.76	99.76	99.98	99.98	99.73	99.73	0.5	0.5	FP	
03/06/03	1V	59251	L030589151	N	100.12	100.12	100.05	100.05	99.7	99.7	100.04	100.04	-0.17	-0.17	FP	
03/06/03	1V	54022	L031604022	N	100.04	100.04	99.71	99.71	99.52	99.52	99.87	99.87	2.82	2.82	FP	
03/06/03	1V	59207	L030589207	N	99.57	99.57	99.56	99.56	99.93	99.93	99.62	99.62	1.93	1.93	FP	
03/06/03	1V	50879	L030040879	N	100.23	100.23	99.78	99.78	99.14	99.14	99.95	99.95	2.39	2.39	FP	
03/06/03	1V	52145	L018989322	N	100.23	100.23	100.23	100.23	99.69	99.69	100.24	100.24	6.21	6.21	FP	
03/06/03	1V	50383	L023064065	N	100.25	100.25	100.17	100.17	99.63	99.63	100.14	100.14	1.64	1.64	FP	
03/06/03	1V	51145	L024205837	N	51.18	51.18	50.9	50.9	51.49	51.49	51.34	51.34	20.32	20.32	FP	S2 Dead stator A phase
12/05/02	1V	31130	L024205741	N	100.08	100.08	100.19	100.19	99.88	99.88	100.08	100.08	1.73	1.73	FP	
12/05/02	1V	31193	L025116771	N	100.13	100.13	97.96	97.96	98.52	98.52	99.28	99.28	1.3	1.3	FP	
12/05/02	1V	32169	L014315215	N	99.51	99.51	100.03	100.03	99.7	99.7	99.68	99.68	-1.98	-1.98	FP	
12/05/02	1V	32588	L024055847	N	100.39	100.39	100.12	100.12	99.66	99.66	100.21	100.21	-0.26	-0.26	FP	
12/05/02	1V	38250	L024548250	N	100.29	100.29	100.07	100.07	99.52	99.52	100.11	100.11	1.58	1.58	FP	
12/05/02	1V	53337	L024913337	N	99.56	99.56	99.24	99.24	99.33	99.33	99.43	99.43	3.01	3.01	FP	
12/05/02	1V	57064	L029587064	N	99.82	99.82	99.36	99.36	99.18	99.18	99.6	99.6	2.32	2.32	FP	
12/05/02	1V	58240	L024548240	N	100.14	100.14	100.55	100.55	100	100	100.24	100.24	1.74	1.74	FP	
03/06/03	1V	70539	L027375385	N	100.1	100.1	99.71	99.71	98.6	98.6	99.77	99.77	1.07	1.07	FP	
12/05/02	1V	59615	L017939615	N	99.98	99.98	99.5	99.5	99.86	99.86	99.83	99.83	-0.82	-0.82	FP	
12/05/02	1V	30788	L023063888	N	100.06	100.06	99.78	99.78	99.9	99.9	99.96	99.96	0.89	0.89	FP	
12/05/02	1V	51234	L023679202	N	100.49	100.49	100.85	100.85	100.06	100.06	100.53	100.53	3.17	3.17	FP	
12/05/02	1V	51293	L024205870	N	51.39	51.39	51.18	51.18	51.31	51.31	51.32	51.32	36.82	36.82	FP	S2 Left side dead
12/05/02	1V	50912	L023491241	N	100.18	100.18	100	100	99	99	99.96	99.96	-1.26	-1.26	FP	
12/05/02	1V	39237	L030589237	N	99.6	99.6	98.92	98.92	99.08	99.08	99.33	99.33	-1.1	-1.1	FP	

(* All 3 engineers, E. Rencurrell, F. Paez, & C. Williams;

A/F = As Found, A/L = As Left, SF = Series Full Load, SP = Series Power Factor;

(**) = Measurement not taken

CW = Clinton Williams; FP = Frank Paez

SL = Series Light Load; WA = Weighted Average; KWD = Kilowatt Demand

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FPL - Thermal Demand Meter Tests Witnessed By Commission Engineers

Tests Performed At FPL Meter Facility - Miami

	Date	FPL Symbol	Company Number	Serial Number	Creep Yes/No	SF A/F	SF A/L	SP A/F	SP A/L	SL A/F	SL A/L	WA A/F	WA A/L	KWD % Error A/F	KWD % Error A/L	Engineer	Comments
91	12/05/02	1V	52275	L033212275	N	100.49	100.49	100.26	100.26	100.26	100.26	100.39	100.39	3.01	3.01	FP	
92	12/05/02	1V	55710	L024205710	N	100.1	100.1	99.75	99.75	98.96	98.96	99.84	99.84	0.31	0.31	FP	
93	12/05/02	1V	55804	L024205804	N	100.07	100.07	100.1	100.1	99.9	99.9	100.05	100.05	0.15	0.15	FP	
94	01/10/03	1V	70081	L023670081	N	100.31	100.31	100.24	100.24	98.96	98.96	100.1	100.1	1.26	1.26	FP	
95	01/10/03	1V	72998	L030942998	N	100.24	100.24	99.81	99.81	99.6	99.6	100.03	100.03	-0.15	-0.15	FP	
96	01/10/03	1V	76152	L018536152	N	100.1	100.1	99.64	99.64	99.6	99.6	99.9	99.9	-0.15	-0.15	FP	
97	01/10/03	1V	77073	L029587073	N	100.33	100.33	99.96	99.96	99.83	99.83	100.15	100.15	-0.79	-0.79	FP	
98	01/10/03	1V	79497	L030179497	N	99.89	99.89	99.62	99.62	99.15	99.15	99.71	99.71	-0.15	-0.15	FP	
99	01/10/03	1V	50842	L019362096	N	100.26	100.26	99.42	99.42	97.82	97.82	99.67	99.67	0.31	0.31	FP	
100	01/10/03	1V	50241	L018485223	N	99.75	99.75	99.74	99.74	100.02	100.02	99.79	99.79	-1.1	-1.1	FP	
101	01/10/03	1V	77320	L024205732	N	100.88	100.88	101.26	101.26	100.93	100.93	100.99	100.99	0.63	0.63	FP	Failed P/L no pulses
102	12/05/02	1V	57681	L029877681	N	99.98	99.98	99.12	99.12	100.37	100.37	99.79	99.79	-1.26	-1.26	FP	
103	12/05/02	1V	59495	L018989495	N	100.05	100.05	100.06	100.06	99.25	99.25	99.94	99.94	0.15	0.15	FP	
104	12/05/02	1V	72018	L017957880	N	100.35	100.35	99.84	99.84	100.18	100.18	100.18	100.18	0.31	0.31	FP	
105	01/10/03	1V	3181D	L034344181	N	100.61	100.61	100.4	100.4	101.27	101.27	100.64	100.64	3.01	3.01	FP	
106	01/10/03	1V	30309	L027375383	N	100.21	100.21	99.91	99.91	99.93	99.93	99.94	99.94	2.06	2.06	FP	
107	01/10/03	1V	35373	L027375373	N	99.79	99.79	99.47	99.47	99.22	99.22	99.62	99.62	2.69	2.69	FP	
108	01/10/03	1V	32108	L018535826	N	100.34	100.34	99.4	99.4	100.75	100.75	100.13	100.13	3.49	3.49	FP	
109	01/10/03	1V	36755	L023036755	N	100.65	100.65	100.16	100.16	99.7	99.7	100.38	100.38	-0.15	-0.15	FP	
110	01/10/03	1V	72257	L033212257	N	99.15	99.15	99.44	99.44	99.23	99.23	99.82	99.82	3.73	3.73	FP	
111	01/10/03	1V	75705	L019015705	N	99.72	99.72	99.22	99.22	99.79	99.79	99.59	99.59	-0.15	-0.15	FP	
112	01/10/03	1V	57316	L027477316	N	100.11	100.11	99.73	99.73	99.85	99.85	99.96	99.96	-3.96	-3.96	FP	
113	01/10/03	1V	53016	L018013016	N	99.95	99.95	99.33	99.33	99.89	99.89	99.76	99.76	0.31	0.31	FP	
114	01/10/03	1V	55808	L024055808	N	99.98	99.98	100.13	100.13	99.91	99.91	100.01	100.01	1.58	1.58	FP	
115	01/10/03	1V	52391	L018989436	N	100.39	100.39	99.93	99.93	99.81	99.81	100.18	100.18	-0.55	-0.55	FP	
116	01/10/03	1V	52128	L024548193	N	100.49	100.49	100.55	100.55	99.56	99.56	100.37	100.37	1.58	1.58	FP	
117	01/10/03	1V	51371	L023491371	N	100.2	100.2	99.76	99.76	99.12	99.12	99.92	99.92	-1.1	-1.1	FP	
118	01/10/03	1V	51327	L018301327	N	100.02	100.02	99.49	99.49	99.8	99.8	99.84	99.84	0.31	0.31	FP	
119	01/10/03	1V	51108	L023036643	N	100.57	100.57	100.75	100.75	100.12	100.12	100.56	100.56	0.31	0.31	FP	
120	01/10/03	1V	50117	L024640117	N	100.51	100.51	100.34	100.34	100.15	100.15	100.41	100.41	1.58	1.58	FP	
121	01/10/03	1V	79278	L018989278	N	100.09	100.09	99.58	99.58	100.33	100.33	99.98	99.98	-0.07	-0.07	FP	

(*) All 3 engineers, E. Rencurrell, F. Paez, & C. Williams;

CW = Clinton Williams; FP = Frank Paez

A/F = As Found; A/L = As Left; SF = Series Full Load; SP = Series Power Factor;

SL = Series Light Load; WA = Weighted Average; KWD = Kilowatt Demand

(**) = Measurement not taken

**FPL - Thermal Demand Meter Re-tests As Requested By George Brown, Southeastern Utility Services, Inc.
Re-tests Witnessed By Commission Engineers, Tests Performed At FPL Meter Facility - Miami**

Re-test Date	Original Test Date	FPL Symbol	Company Number	Serial Number	Original KWD % Error	Re-test KWD % Error	Engineer	Comments
05/21/03	02/26/03	1U	52747	L018535051	1.82	-1.97	CW	
05/21/03	02/26/03	1U	51401	L019346986	2.16	2.69	CW	
05/21/03	02/26/03	1U	78293	L023128293	2.02	2.69	CW	
05/21/03	02/26/03	1U	71993	L024639801	1.82	1.36	CW	
05/21/03	02/26/03	1U	72446	L027542446	0.15	0.36	CW	
05/21/03	03/28/03	1V	5679D	L017957679	4.39	5.07	CW	
05/21/03	02/26/03	1V	51344	L018301344	1.53	2.69	CW	
05/21/03	12/23/02	1V	55773	L019015773	0.62	-0.63	CW	
05/21/03	02/26/03	1V	51211	L023491232	0.82	1.26	CW	
05/21/03	02/26/03	1V	71373	L023491373	0.15	1.26	CW	
05/21/03	08/21/02	1V	5009D	L023864871	0.7	2.21	CW	
05/21/03	12/10/02	1V	5898D	L023864898	1.82	3.64	CW	
05/21/03	02/26/03	1V	74963	L023864963	3.77	3.41	CW	
05/21/03	12/10/02	1V	7745D	L024205745	-1.12	-2.78	CW	
05/21/03	12/10/02	1V	5025D	L024206025	1.73	4.12	CW	
05/21/03	02/27/03	1V	52475	L024548213	3.01	4.12	CW	
05/21/03	02/26/03	1V	55381	L027375381	2.96	4.12	CW	
05/21/03	12/10/03	1V	5249D	L027477249	0.73	3.64	CW	
05/21/03	12/10/02	1V	5192D	L028205192	2.68	4.36	CW	
05/21/03	12/10/03	1V	5211D	L028205211	-1.55	-2.78	CW	
05/21/03	03/20/03	1V	50842	L030040842	-19.84	-77.78	CW	S2: Dead stator "A" phase
05/21/03	02/26/03	1V	59682	L030309682	0.53	0.55	CW	
05/21/03	12/10/02	1V	59210	L030589210	1.58	3.41	CW	
05/21/03	12/10/02	1V	5216D	L033439216	2.44	4.84	CW	
05/21/03	12/10/02	1V	5885D	L034219885	2.73	4.84	CW	
05/21/03	12/10/02	1V	5887D	L034219887	3.25	4.36	CW	
05/21/03	12/10/02	1V	5159D	L034844159	3.41	4.36	CW	
05/21/03	12/10/02	1V	7032D	L036292032	2.01	4.84	CW	

S = series; A = Meter Element "A", B = Meter Element "B",

C = Meter Element "C", FL = Full Load; PF = Power Factor;

LL = Light Load; WA = weighted Average;

KWD = Kilowatt Demand

The Meter Re-Tests Were Done At A

Higher Load Than The Original Tests

c:\meter\pl-retest.123