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November 20, 2020

-VIA ELECTRONIC FILING -

Adam Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

Re: Docket No. 20200001-EI

Dear Mr. Teitzman:

Attached for electronic filing in the above docket is Florida Power & Light Company's GPIF Actual Unit Performance Data Schedules covering the month of October 2020. These schedules are being filed at the same time but separately from its monthly filing of the A Schedules.

If there are any questions regarding this transmittal, please contact me at (561) 304-5795.

Sincerely,

s/ Maria Jose Moncada
Maria Jose Moncada

Attachments

cc: Counsel for Parties of Record (w/ attachments)

CERTIFICATE OF SERVICE

Docket No. 20200001-EI

I **HEREBY CERTIFY** that a true and correct copy of the foregoing has been furnished
by electronic service on this 20th day of November 2020 to the following:

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White Springs**

By: s/ Maria Jose Moncada
Maria Jose Moncada
Florida Bar No. 0773301

ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: CAPE CANAVERAL 03										PCC 03		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	99.1	100	99.2	54.2	87.1	98.4	92.1	99	99.9	59.5	0	0	88.8
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	739.65	696	743	548.03	744	720	717.08	740.65	720	446.45	0	0	6814.87
4.	RSH	4.35	0	0	0	0	0	0	3.35	0	9.55	0	0	17.25
5.	UH	0	0	0	171.97	0	0	26.92	0	0	288	0	0	486.88
6.	POH	0	0	0	0	0	0	0	0	0	288	0	0	288
7.	FOH	0	0	0	0	0	0	0	0	0	0	0	0	0
8.	MOH	0	0	0	0	0	0	26.92	0	0	0	0	0	26.92
9.	PPOH	0	0	0	626.78	280.08	0	0	0	0	0	0	0	906.87
10.	LR PP (MW)	0	0	0	390.27	435.25	0	0	0	0	0	0	0	404.15
11.	PFOH	0	0.75	17.48	6.22	8.82	1.63	2.45	8.88	3.22	1	0	0	50.45
12.	LR PF (MW)	0	436.03	436.09	435.75	414.24	436.87	436.01	309.56	435.53	435.98	0	0	409.94
13.	PMOH	19.93	0	0	182.23	0	32.25	80.08	16.68	0	39.2	0	0	370.38
14.	LR PM (MW)	436.1	0	0	1010.05	0	435.98	506.88	436.12	0	436.03	0	0	733.76
15.	NSC	1308	1308	1308	1308	1308	1308	1308	1308	1308	1308	0	0	1308
16.	OPER BTU (MBTU)	4175078	4049224	4214917	2196067	3236619	4034596	3942433	4451010	4161712	2587288	0	0	37048944
17.	NET GEN	632101	615305	637856	327822	481735	604131	587658	662945	617969	389986	0	0	5557508
18.	ANOHR (BTU/KWH)	6605	6581	6608	6699	6719	6678	6709	6714	6734	6634	0	0	6666
19.	NOF (%)	65.3	67.6	65.6	45.7	49.5	64.1	62.7	68.4	65.6	66.8	0	0	62.3
20.	NPC (MW)	1308	1308	1308	1308	1308	1308	1308	1308	1308	1308	0	0	1308

21.	ANOHR EQUATION	ANOHR = A + B (N.O.F.) A = 0 B = 0											
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NOTE: LINE 17 IS DATA WHEN THE UNIT IS SYNCRONIZED TO THE SYSTEM

ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: RIVIERA 05										PRV 05		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	64.2	98.1	97	89.6	99.9	92.3	98.6	100	96.6	85.2	0	0	92.1
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	574.9	696	743	689.03	736.95	699.97	744	741.75	720	717.58	0	0	7063.18
4.	RSH	6.77	0	0	0	7.05	0	0	2.25	0	0	0	0	16.07
5.	UH	162.33	0	0	30.97	0	20.03	0	0	0	26.42	0	0	239.75
6.	POH	0	0	0	0	0	0	0	0	0	0	0	0	0
7.	FOH	139.63	0	0	0	0	20.03	0	0	0	0	0	0	159.67
8.	MOH	22.7	0	0	30.97	0	0	0	0	0	26.42	0	0	80.08
9.	PPOH	0	0	0	0	0	0	0	0	0	0	0	0	0
10.	LR PP (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
11.	PFOH	17.9	0.38	0	1.48	1.12	57.37	30.38	0	21	0.67	0	0	130.3
12.	LR PF (MW)	565.5	439.8	0	245.41	481.56	236.35	436.08	0	435.98	433.81	0	0	364.03
13.	PMOH	260.73	38.52	66.83	124.57	0	62.97	0	0	26.93	140.6	0	0	721.15
14.	LR PM (MW)	483.75	435.94	436	456.61	0	523.31	0	0	856.2	779.42	0	0	547.11
15.	NSC	1308	1308	1308	1308	1308	1308	1308	1308	1308	1308	0	0	1308
16.	OPER BTU (MBTU)	2239725	3368707	3893546	3471170	3692395	3837975	4314253	4486606	4114934	4063630	0	0	37482942
17.	NET GEN	327270	511468	596688	533032	552203	581017	660809	681237	621716	616380	0	0	5681820
18.	ANOHR (BTU/KWH)	6844	6586	6525	6512	6687	6606	6529	6586	6619	6593	0	0	6597
19.	NOF (%)	43.5	56.2	61.4	59.1	57.3	63.5	67.9	70.2	66	65.7	0	0	61.5
20.	NPC (MW)	1308	1308	1308	1308	1308	1308	1308	1308	1308	1308	0	0	1308

21. ANOHR EQUATION

ANOHR = A + B (N.O.F.)
A = 0 B = 0

NOTE: LINE 17 IS DATA WHEN THE UNIT IS SYNCRONIZED TO THE SYSTEM

FILED:
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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: WEST COUNTY ENER 03										PWC 03		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	87.5	97.1	94.4	97.3	80.3	92.5	100	94.5	17.7	70.7	0	0	83.2
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	696	743	720	744	720	744	744	193.95	654.58	0	0	6703.53
4.	RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
5.	UH	0	0	0	0	0	0	0	0	526.05	89.42	0	0	615.47
6.	POH	0	0	0	0	0	0	0	0	0	0	0	0	0
7.	FOH	0	0	0	0	0	0	0	0	0	0	0	0	0
8.	MOH	0	0	0	0	0	0	0	0	0	0	0	0	0
9.	PPOH	0	0	0	0	0	0	0	122.52	720	349.22	0	0	1191.73
10.	LR PP (MW)	0	0	0	0	0	0	0	403.64	289.01	360.61	0	0	321.78
11.	PFOH	83.62	0	23.35	0	1.92	162.4	0	0	3.55	0	0	0	274.83
12.	LR PF (MW)	403.66	0	403.66	0	417.35	403.7	0	0	403.7	0	0	0	403.79
13.	PMOH	195.4	59.55	101.95	58.95	437.63	0	0	0	527.98	212	0	0	1593.47
14.	LR PM (MW)	403.64	403.66	403.68	403.65	403.55	0	0	0	962.47	649.62	0	0	621.5
15.	NSC	1211	1211	1211	1211	1211	1211	1211	1211	1211	1211	0	0	1211
16.	OPER BTU (MBTU)	3502494	3810881	4405127	4483651	3786304	4309378	4823230	4447866	893367	3705167	0	0	38167465
17.	NET GEN	504347	547457	634308	647195	533894	620956	703345	638834	126610	522664	0	0	5479610
18.	ANOHR (BTU/KWH)	6945	6961	6945	6928	7092	6940	6858	6962	7056	7089	0	0	6965
19.	NOF (%)	56	65	70.5	74.2	59.3	71.2	78.1	70.9	53.9	65.9	0	0	67.5
20.	NPC (MW)	1211	1211	1211	1211	1211	1211	1211	1211	1211	1211	0	0	1211

21.	ANOHR EQUATION	ANOHR = A + B (N.O.F.) A = 0 B = 0											
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NOTE: LINE 17 IS DATA WHEN THE UNIT IS SYNCRONIZED TO THE SYSTEM

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: FORT MYERS 02										PFM 02		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	95.5	71.8	90.5	91.5	92.8	99.4	96.9	100	86.4	96.9	0	0	92.3
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	689.08	743	720	744	720	744	744	720	744	0	0	7312.08
4.	RSH	0	6.92	0	0	0	0	0	0	0	0	0	0	6.92
5.	UH	0	0	0	0	0	0	0	0	0	0	0	0	0
6.	POH	0	0	0	0	0	0	0	0	0	0	0	0	0
7.	FOH	0	0	0	0	0	0	0	0	0	0	0	0	0
8.	MOH	0	0	0	0	0	0	0	0	0	0	0	0	0
9.	PPOH	0	0	267.45	92.37	0	0	0	0	234.73	0	0	0	594.55
10.	LR PP (MW)	0	0	288.53	284.17	0	0	0	0	288.53	0	0	0	287.85
11.	PFOH	99.65	0.92	7.65	57.28	34.9	0	0	0	21.15	8.48	0	0	230.03
12.	LR PF (MW)	158.03	191.8	288.39	288.55	288.53	0	0	0	288.49	158.45	0	0	226.81
13.	PMOH	145.45	522.45	218.5	161.28	233.52	24.62	96.28	0	332.53	86.57	0	0	1821.2
14.	LR PM (MW)	288.52	650.54	196.11	393.25	355.85	288.49	410.59	0	288.53	450.58	0	0	413.35
15.	NSC	1730	1730	1730	1730	1730	1730	1730	1730	1730	1730	0	0	1730
16.	OPER BTU (MBTU)	4863576	4158685	5720092	5696479	5863487	6485123	6455889	6517656	5674094	6521996	0	0	57957077
17.	NET GEN	679666	541017	799871	804689	819941	925200	916197	926722	807219	928953	0	0	8149475
18.	ANOHR (BTU/KWH)	7156	7687	7151	7079	7151	7009	7046	7033	7029	7021	0	0	7112
19.	NOF (%)	52.8	45.4	62.2	64.6	63.7	74.3	71.2	72	64.8	72.2	0	0	64.4
20.	NPC (MW)	1730	1730	1730	1730	1730	1730	1730	1730	1730	1730	0	0	1730

21. ANOHR EQUATION

ANOHR = A + B (N.O.F.)
A = 0 B = 0

NOTE: LINE 17 IS DATA WHEN THE UNIT IS SYNCRONIZED TO THE SYSTEM

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: ST LUCIE 01 PSL 01												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	100	99.6	100	100	100	100	99.1	100	98.6	100	0	0	99.7
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	696	743	720	744	720	744	744	720	744	0	0	7319
4.	RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
5.	UH	0	0	0	0	0	0	0	0	0	0	0	0	0
6.	POH	0	0	0	0	0	0	0	0	0	0	0	0	0
7.	FOH	0	0	0	0	0	0	0	0	0	0	0	0	0
8.	MOH	0	0	0	0	0	0	0	0	0	0	0	0	0
9.	PPOH	0	0	0	0	0	0	42	0	0	0	0	0	42
10.	LR PP (MW)	0	0	0	0	0	0	148.09	0	0	0	0	0	148.09
11.	PFOH	0	33.23	0	0	0	0	0	0	31.43	0	0	0	64.67
12.	LR PF (MW)	0	78.83	0	0	0	0	0	0	315.3	0	0	0	193.74
13.	PMOH	0	0	0	0	0	0	0	0	0	0	0	0	0
14.	LR PM (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
15.	NSC	981	981	981	981	981	981	981	981	981	981	0	0	981
16.	OPER BTU (MBTU)	7661700	7138478	7649100	7412668	7661353	7414499	7597209	7661427	7309859	7662293	0	0	75168587
17.	NET GEN	747530	696469	744820	720767	742079	715810	725792	732525	697787	735154	0	0	7258733
18.	ANOHR (BTU/KWH)	10249	10250	10270	10284	10324	10358	10467	10459	10476	10423	0	0	10356
19.	NOF (%)	102.4	102	102.2	102	101.7	101.3	99.4	100.4	98.8	100.7	0	0	101.1
20.	NPC (MW)	981	981	981	981	981	981	981	981	981	981	0	0	981

21. ANOHR EQUATION ANOHR = A + B (N.O.F.)
A = 0 B = 0

NOTE: LINE 17 IS DATA WHEN THE UNIT IS SYNCHRONIZED TO THE SYSTEM

ISSUED BY: FLORIDA POWER & LIGHT CO.

FILED:
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 ORDER NO.:

ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: ST LUCIE 02										PSL 02		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	100	54	39	100	100	100	100	100	100	100	0	0	89.4
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	384	306.73	720	744	720	744	744	720	744	0	0	6570.73
4.	RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
5.	UH	0	312	436.27	0	0	0	0	0	0	0	0	0	748.27
6.	POH	0	312	383	0	0	0	0	0	0	0	0	0	695
7.	FOH	0	0	53.27	0	0	0	0	0	0	0	0	0	53.27
8.	MOH	0	0	0	0	0	0	0	0	0	0	0	0	0
9.	PPOH	0	27.03	42.07	0	0	0	0	0	0	0	0	0	69.1
10.	LR PP (MW)	0	305.31	405.94	0	0	0	0	0	0	0	0	0	366.57
11.	PFOH	0	0	0	0	0	0	0	0	0	0	0	0	0
12.	LR PF (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
13.	PMOH	0	0	0	0	0	0	0	0	0	0	0	0	0
14.	LR PM (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
15.	NSC	987	987	987	987	987	987	987	987	987	987	0	0	987
16.	OPER BTU (MBTU)	7652423	3862897	2974824	7416280	7662887	7415092	7662219	7661551	7415117	7661823	0	0	67385113
17.	NET GEN	757928	381105	292040	732592	753545	726805	745669	744036	720597	745587	0	0	6599904
18.	ANOHR (BTU/KWH)	10097	10136	10186	10123	10169	10202	10276	10297	10290	10276	0	0	10210
19.	NOF (%)	103.2	100.6	96.5	103.1	102.6	102.3	101.5	101.3	101.4	101.5	0	0	101.8
20.	NPC (MW)	987	987	987	987	987	987	987	987	987	987	0	0	987

21. ANOHR EQUATION ANOHR = A + B (N.O.F.)
A = 0 B = 0

NOTE: LINE 17 IS DATA WHEN THE UNIT IS SYNCHRONIZED TO THE SYSTEM

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: TURKEY POINT 03										PTN 03		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	99.9	100	91.2	14.3	100	100	100	75.9	100	100	0	0	88.2
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	696	695	134.98	744	720	744	589.75	720	744	0	0	6531.73
4.	RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
5.	UH	0	0	48	585.02	0	0	0	154.25	0	0	0	0	787.27
6.	POH	0	0	48	585.02	0	0	0	0	0	0	0	0	633.02
7.	FOH	0	0	0	0	0	0	0	154.25	0	0	0	0	154.25
8.	MOH	0	0	0	0	0	0	0	0	0	0	0	0	0
9.	PPOH	0	0	27.98	88.35	0	0	0	0	0	0	0	0	116.33
10.	LR PP (MW)	0	0	509.22	300.96	0	0	0	0	0	0	0	0	351.05
11.	PFOH	17.33	0	0	0	0	0	0	28.5	0	0	0	0	45.83
12.	LR PF (MW)	35.81	0	0	0	0	0	0	740.63	0	0	0	0	474.11
13.	PMOH	0	0	0	0	0	0	0	0	0	0	0	0	0
14.	LR PM (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
15.	NSC	837	837	837	837	837	837	837	837	837	837	0	0	837
16.	OPER BTU (MBTU)	6693759	6274014	6069494	947062	6706298	6490221	6706125	5187520	6489376	6707273	0	0	58271142
17.	NET GEN	649335	605959	579273	88509	644941	620498	641209	491295	620009	646840	0	0	5587868
18.	ANOHR (BTU/KWH)	10309	10354	10478	10700	10398	10460	10459	10559	10467	10369	0	0	10428
19.	NOF (%)	104.3	104	99.6	78.3	103.6	103	103	99.5	102.9	103.9	0	0	102.2
20.	NPC (MW)	837	837	837	837	837	837	837	837	837	837	0	0	837

21. ANOHR EQUATION ANOHR = A + B (N.O.F.)
A = 0 B = 0

NOTE: LINE 17 IS DATA WHEN THE UNIT IS SYNCHRONIZED TO THE SYSTEM

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: TURKEY POINT 04										PTN 04		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	100	99.8	100	100	100	100	51.3	100	100	4.3	0	0	85.3
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	696	743	720	744	720	390.25	744	720	48	0	0	6269.25
4.	RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
5.	UH	0	0	0	0	0	0	353.75	0	0	696	0	0	1049.75
6.	POH	0	0	0	0	0	0	0	0	0	696	0	0	696
7.	FOH	0	0	0	0	0	0	353.75	0	0	0	0	0	353.75
8.	MOH	0	0	0	0	0	0	0	0	0	0	0	0	0
9.	PPOH	0	0	0	0	0	0	0	0	0	27	0	0	27
10.	LR PP (MW)	0	0	0	0	0	0	0	0	0	483.83	0	0	483.83
11.	PFOH	0	12.9	0	0	0	0	24.08	0	0	0	0	0	36.98
12.	LR PF (MW)	0	93.8	0	0	0	0	301.73	0	0	0	0	0	229.2
13.	PMOH	0	0	0	0	0	0	0	0	0	0	0	0	0
14.	LR PM (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
15.	NSC	821	821	821	821	821	821	821	821	821	821	0	0	821
16.	OPER BTU (MBTU)	6706861	6260002	6697239	6490286	6707684	6490698	3444327	6704046	6445736	298787	0	0	56245667
17.	NET GEN	630568	585369	622605	600453	619520	593445	313172	608842	587640	24533	0	0	5186147
18.	ANOHR (BTU/KWH)	10636	10694	10757	10809	10827	10937	10998	11011	10969	12179	0	0	10845
19.	NOF (%)	103.2	102.4	102.1	101.6	101.4	100.4	97.7	99.7	99.4	62.3	0	0	100.8
20.	NPC (MW)	821	821	821	821	821	821	821	821	821	821	0	0	821

21. ANOHR EQUATION ANOHR = A + B (N.O.F.)
A = 0 B = 0

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: WEST COUNTY ENER 01										PWC 01		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	89.2	96.9	78.3	97.7	98	100	92	97.1	97.2	42.9	0	0	88.8
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	696	743	720	744	720	744	744	720	322.9	0	0	6897.9
4.	RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
5.	UH	0	0	0	0	0	0	0	0	0	421.1	0	0	421.1
6.	POH	0	0	0	0	0	0	0	0	0	421.1	0	0	421.1
7.	FOH	0	0	0	0	0	0	0	0	0	0	0	0	0
8.	MOH	0	0	0	0	0	0	0	0	0	0	0	0	0
9.	PPOH	0	0	477.25	0	0	0	0	0	0	8.25	0	0	485.5
10.	LR PP (MW)	0	0	407.65	0	0	0	0	0	0	573.16	0	0	410.46
11.	PFOH	2.63	21.57	6.9	38.45	10.68	0	11.78	2.77	7.15	0	0	0	101.93
12.	LR PF (MW)	408.21	395.39	407.65	407.69	355.46	0	636	407.16	407.69	0	0	0	426
13.	PMOH	238.13	44.67	0	11.52	36.32	0	159.67	61.65	52.35	0	0	0	604.3
14.	LR PM (MW)	407.67	407.61	0	407.53	407.61	0	407.69	410.24	407.65	0	0	0	407.93
15.	NSC	1223	1223	1223	1223	1223	1223	1223	1223	1223	1223	0	0	1223
16.	OPER BTU (MBTU)	3499193	3807559	3973035	4564531	4531500	4884109	4655663	4787111	4752902	2234168	0	0	41689770
17.	NET GEN	481085	542822	561996	648552	649229	692993	651430	670914	670434	315656	0	0	5885111
18.	ANOHR (BTU/KWH)	7274	7014	7070	7038	6980	7048	7147	7135	7089	7078	0	0	7084
19.	NOF (%)	52.9	63.8	61.8	73.7	71.4	78.7	71.6	73.7	76.1	79.9	0	0	69.8
20.	NPC (MW)	1223	1223	1223	1223	1223	1223	1223	1223	1223	1223	0	0	1223
21.	ANOHR EQUATION	ANOHR = A + B (N.O.F.)												
		A = 0 B = 0												

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: WEST COUNTY ENER 02										PWC 02		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	97.8	97.9	98.7	95	61.7	92	94.3	95.3	93.4	100	0	0	92.6
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	696	743	708.65	571.77	720	744	744	720	744	0	0	7135.42
4.	RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
5.	UH	0	0	0	11.35	172.23	0	0	0	0	0	0	0	183.58
6.	POH	0	0	0	0	0	0	0	0	0	0	0	0	0
7.	FOH	0	0	0	0	0	0	0	0	0	0	0	0	0
8.	MOH	0	0	0	11.35	172.23	0	0	0	0	0	0	0	183.58
9.	PPOH	0	0	0	0	0	0	0	0	0	0	0	0	0
10.	LR PP (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
11.	PFOH	50.12	51.08	0	4.68	3.02	10.22	0	0	30.03	0	0	0	149.15
12.	LR PF (MW)	407.67	150.8	0	407.94	407.2	407.56	0	0	407.7	0	0	0	319.7
13.	PMOH	0	25.07	28.5	67.95	323.03	162.92	92.95	105.52	104.07	0	0	0	910
14.	LR PM (MW)	0	407.58	407.64	421.64	421.93	407.64	561.13	407.64	441.52	0	0	0	433.31
15.	NSC	1223	1223	1223	1223	1223	1223	1223	1223	1223	1223	0	0	1223
16.	OPER BTU (MBTU)	3594731	3834435	4680580	4384389	2837529	4285288	4557700	4497885	4406022	5040891	0	0	42119450
17.	NET GEN	516562	551968	680720	637961	407764	626918	670810	653191	643339	741478	0	0	6130711
18.	ANOHR (BTU/KWH)	6959	6947	6876	6873	6959	6835	6794	6886	6849	6798	0	0	6870
19.	NOF (%)	56.8	64.8	74.9	73.6	58.3	71.2	73.7	71.8	73.1	81.5	0	0	70.3
20.	NPC (MW)	1223	1223	1223	1223	1223	1223	1223	1223	1223	1223	0	0	1223
21.	ANOHR EQUATION	ANOHR = A + B (N.O.F.) A = 0 B = 0												

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: MANATEE UNIT 3 CC 03										PM3 03		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	74.1	99.8	99.9	97.4	94.6	99.8	96.7	99.8	96.9	98.2	0	0	95.7
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	576.22	696	743	720	732.55	720	744	744	720	744	0	0	7139.77
4.	RSH	0	0	0	0	11.45	0	0	0	0	0	0	0	11.45
5.	UH	167.78	0	0	0	0	0	0	0	0	0	0	0	167.78
6.	POH	0	0	0	0	0	0	0	0	0	0	0	0	0
7.	FOH	0	0	0	0	0	0	0	0	0	0	0	0	0
8.	MOH	167.78	0	0	0	0	0	0	0	0	0	0	0	167.78
9.	PPOH	0	0	0	0	0	0	0	0	0	0	0	0	0
10.	LR PP (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
11.	PFOH	0.2	5.12	2.92	24.33	1.12	0	0.43	6.55	7.58	2.65	0	0	50.9
12.	LR PF (MW)	305.75	305.55	305.4	305.79	304.84	0	308.12	305.75	305.88	305.75	0	0	305.75
13.	PMOH	61.53	0	0	49.2	87	6.08	98.75	0	81.1	49.77	0	0	433.43
14.	LR PM (MW)	500.99	0	0	305.75	556.68	305.92	305.75	0	305.75	305.73	0	0	383.83
15.	NSC	1223	1223	1223	1223	1223	1223	1223	1223	1223	1223	0	0	1223
16.	OPER BTU (MBTU)	2718473	3960143	4660041	4558955	4233456	4754144	4743423	4679367	4482317	4999780	0	0	43790099
17.	NET GEN	396402	582043	659727	639218	592972	661004	656905	646644	620365	779435	0	0	6234715
18.	ANOHR (BTU/KWH)	6858	6804	7064	7132	7139	7192	7221	7236	7225	6415	0	0	7024
19.	NOF (%)	56.2	68.4	72.6	72.6	66.2	75.1	72.2	71.1	70.5	85.7	0	0	71.4
20.	NPC (MW)	1223	1223	1223	1223	1223	1223	1223	1223	1223	1223	0	0	1223

21. ANOHR EQUATION

ANOHR = A + B (N.O.F.)
 A = 0 B = 0

NOTE: LINE 17 IS DATA WHEN THE UNIT IS SYNCRONIZED TO THE SYSTEM

ISSUED BY: FLORIDA POWER & LIGHT CO.

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
FROM: Jan-2020 TO: Dec-2020

		PLANT / UNIT: MARTIN-UNIT 8 08										PM8 08		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ytd
1.	EAF (%)	96.3	62.7	95.7	95.2	98.2	73.7	91.9	97.5	96	98.1	0	0	90.7
2.	PH	744	696	743	720	744	720	744	744	720	744	0	0	7319
3.	SH	744	555.4	743	720	744	592.05	744	744	720	744	0	0	7050.45
4.	RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
5.	UH	0	140.6	0	0	0	127.95	0	0	0	0	0	0	268.55
6.	POH	0	0	0	0	0	0	0	0	0	0	0	0	0
7.	FOH	0	0	0	0	0	0	0	0	0	0	0	0	0
8.	MOH	0	140.6	0	0	0	127.95	0	0	0	0	0	0	268.55
9.	PPOH	0	0	0	0	0	0	0	0	0	0	0	0	0
10.	LR PP (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
11.	PFOH	27.28	0	36.97	0	0	96.42	0	12.02	1.18	1.5	0	0	175.37
12.	LR PF (MW)	79.51	0	131.52	0	0	304.49	0	304.42	305.36	304.5	0	0	233.03
13.	PMOH	103.88	247.75	111.37	116.17	54	123.93	223.03	61.15	114.05	53.93	0	0	1209.27
14.	LR PM (MW)	304.51	583.51	304.49	360.8	304.5	365.57	329.44	304.5	304.5	304.52	0	0	377.93
15.	NSC	1218	1218	1218	1218	1218	1218	1218	1218	1218	1218	0	0	1218
16.	OPER BTU (MBTU)	3763383	2518612	4233420	4039622	4071390	3350739	4483173	4606189	4483833	4927209	0	0	40477570
17.	NET GEN	527767	345756	605372	572485	581807	485344	635113	659859	639529	703365	0	0	5756397
18.	ANOHR (BTU/KWH)	7131	7284	6993	7056	6998	6904	7059	6981	7011	7005	0	0	7032
19.	NOF (%)	58.2	51.1	66.9	65.3	64.2	67.3	70.1	72.8	72.9	77.6	0	0	67
20.	NPC (MW)	1218	1218	1218	1218	1218	1218	1218	1218	1218	1218	0	0	1218
21.	ANOHR EQUATION	ANOHR = A + B (N.O.F.)												
		A = 0 B = 0												

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ISSUED BY: FLORIDA POWER & LIGHT CO.

ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
From: Jan-2020 To: Dec-2020

PLANT / UNIT: CAPE CANAVERAL 03 PCC 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/09/2020	FMO	19.9	275	3-3 SNO Exhaust leak in CT Compartment
01/09/2020	PMO	19.9	161.03	Impact loss due to curtailment on 33
02/15/2020	FFO	0.8	275	3-3 HCO Trip
02/15/2020	PFO	0.8	161.03	Impact loss due to curtailment on 33
03/13/2020	FFO	8.7	275	PCC 3-3 EFOR Startup failure - loss of SFC Breaker
03/13/2020	PFO	8.7	161.03	Impact loss due to curtailment on 33
03/17/2020	FFO	4.2	275	PCC 3-2 EFOR Startup Failure - Pilot Stage ESV Failed to Open
03/17/2020	PFO	4.2	160.98	Impact loss due to curtailment on 32
03/18/2020	FFO	3.3	275	PCC 3-2 EFOR Startup Failure - Pilot Stage ESV Failed to Open
03/18/2020	PFO	3.3	160.98	Impact loss due to curtailment on 32
03/25/2020	FFO	1.3	275	PCC 3-2 EFOR Startup Failure - Pilot Stage ESV Failed to Open
03/25/2020	PFO	1.3	160.98	Impact loss due to curtailment on 32
04/04/2020	FFO	3.7	275	PCC 3-2 EFOR Failed Startup - Pilot Valve ESV failed to open
04/04/2020	PFO	3.7	160.98	Impact loss due to curtailment on 32
04/04/2020	FPO	906.9	275	PCC 3-1 Project 39306 2020-CT-CI-MAJOR - ROLL-OUT/ROL
04/04/2020	PPO	727.6	160.98	Impact loss due to curtailment on 31
04/15/2020	FMO	182.2	275	3-3 SNOW Replace Cond Pump Motor
04/15/2020	PMO	4.2	161.03	Impact loss due to curtailment on 33
04/15/2020	FMO	178.0	483	3-0 SNOW Replace Cond Pump Motor
04/15/2020	FMO	172.0	275	3-2 SNOW Replace Cond Pump Motor
04/26/2020	FFO	2.5	275	PCC 3-2 EFOR Failed Startup - Pilot Valve ESV failed to open
04/26/2020	PFO	2.5	160.98	Impact loss due to curtailment on 32
05/05/2020	FFO	1.3	483	PCC 3-0 EFOR Steam Turbine Trip
05/16/2020	PFO	0.8	116	3-1 Partial EFOR LP Blending Valve

- (1) FFO - FULL FORCED OUTAGE
- PPO - PARTIAL PLANNED OUTAGE
- PMO - PARTIAL MAINTENANCE OUTAGE
- PO - PLANNED OUTAGE
- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
From: Jan-2020 To: Dec-2020

PLANT / UNIT: CAPE CANAVERAL 03 PCC 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
05/31/2020	FFO	6.8	275	PCC 3-2 EFOR Failed Start - Excitation Breaker
05/31/2020	PFO	6.8	160.98	Impact loss due to curtailment on 32
06/19/2020	FMO	32.3	275	3-2 SNOW Gas Coalescing Filter
06/19/2020	PMO	32.3	160.98	Impact loss due to curtailment on 31
06/20/2020	FFO	1.6	275	PCC 3-1 EFOR Unit Trip High Temp Spread
06/20/2020	PFO	1.6	160.98	Impact loss due to curtailment on 31
07/10/2020	FMO	63.4	275	3-3 MOF steam leak repair
07/10/2020	PMO	32.5	161.03	Impact loss due to curtailment on 33
07/11/2020	FMO	38.5	275	3-2 MOF steam leak repair
07/11/2020	PMO	7.6	160.98	Impact loss due to curtailment on 32
07/11/2020	FMO	30.9	483	3-0 MOF steam leak repair
07/11/2020	FMO	26.9	275	3-1 MOF steam leak repair
07/21/2020	FFO	0.9	275	PCC 3-1 EFOR Unit trip high ttemp Spread
07/21/2020	PFO	0.9	160.98	Impact loss due to curtailment on 31
07/22/2020	FMO	43.6	275	PCC 3-3 SNO replace turning gear sensor switch
07/22/2020	PMO	43.6	161.03	Impact loss due to curtailment on 33
07/27/2020	FFO	1.6	275	PCC 3-3 EFOR Failed Start Excitation Breaker
07/27/2020	PFO	1.6	161.03	Impact loss due to curtailment on 33
08/11/2020	PFO	4.9	205	PCC CT 31 Duct Burner Vent Valve Failure
08/19/2020	FFO	4.0	275	PCC CT31 Excitation Fault During Start-up
08/19/2020	PFO	4.0	160.98	Impact loss due to curtailment on 31
08/28/2020	FMO	16.7	275	PCC 3-3 SNO Hot Reheat Sky Vent Repair
08/28/2020	PMO	16.7	161.03	Impact loss due to curtailment on 33
09/01/2020	FFO	1.2	275	PCC 31 EFOR Failed Start Excitation Breaker

- (1) FFO - FULL FORCED OUTAGE
- PPO - PARTIAL PLANNED OUTAGE
- PMO - PARTIAL MAINTENANCE OUTAGE
- PO - PLANNED OUTAGE
- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
From: Jan-2020 To: Dec-2020

PLANT / UNIT: CAPE CANAVERAL 03 PCC 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
09/01/2020	PFO	1.2	160.98	Impact loss due to curtailment on 31
09/10/2020	FFO	2.1	275	EFOR CT31 START Abort due to HCO system fault
09/10/2020	PFO	2.1	160.98	Impact loss due to curtailment on 31
10/01/2020	FMO	39.2	275	PCC 3-3 MOF BFP Coupling Falied
10/01/2020	PMO	39.2	161.03	Impact loss due to curtailment on 33
10/04/2020	FFO	1.0	275	PCC EFOR CT31 Trip on High Temp Spread
10/04/2020	PFO	1.0	160.98	Impact loss due to curtailment on 31
10/20/2020	FPO	288.0	275	PCC 3-2 Proj 47843 STM TURB-VALVES-GEN MINOR-DCS M
10/20/2020	FPO	288.0	275	PCC 3-3 Proj 47843 STM TURB-VALVES-GEN MINOR-DCS M
10/20/2020	FPO	288.0	275	PCC 3-1 Proj 47843 STM TURB-VALVES-GEN MINOR-DCS M
10/20/2020	FPO	288.0	483	PCC 3-0 Proj 47843 STM TURB-VALVES-GEN MINOR-DCS M

- (1) FFO - FULL FORCED OUTAGE
- PPO - PARTIAL PLANNED OUTAGE
- PMO - PARTIAL MAINTENANCE OUTAGE
- PO - PLANNED OUTAGE
- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
From: Jan-2020 To: Dec-2020

PLANT / UNIT: RIVIERA 05 PRV 05

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/05/2020	FFO	2.5	275	CT 53 Startup failure, GV2 valve failed to open
01/05/2020	PFO	2.5	161.03	Impact loss due to curtailment on 53
01/06/2020	FFO	3.8	483	PRV ST, OMC EFOR, Loss of gas Pipeline
01/06/2020	PFO	0.7	161.03	Impact loss due to curtailment on 53
01/06/2020	FFO	141.3	275	CT 53, OMC EFOR, loss of Fuel gas
01/06/2020	PFO	0.7	160.98	Impact loss due to curtailment on 52
01/06/2020	FFO	141.3	275	CT 52, OMC EFOR, Loss of Fuel gas
01/06/2020	FFO	140.6	483	PRV ST, OMC Forced Outage, Loss of Fuel Gas to site
01/06/2020	FFO	139.6	275	CT 51, OMC EFOR, loss of fuel gas
01/12/2020	FMO	22.7	275	CT 52 MOF, Condenser Tube Cleaning
01/12/2020	FMO	31.0	483	PRV ST, MOF, Condenser Tube Cleaning
01/12/2020	FMO	51.6	275	CT 53 MOF, Condenser Tube Cleaning
01/12/2020	FMO	76.2	275	CT 51 MOF, Exhaust bearing Lube Oil Leak / Condenser Cleanin
01/13/2020	PMO	20.6	161.03	Impact loss due to curtailment on 53
01/13/2020	PMO	45.2	160.98	Impact loss due to curtailment on 51
01/15/2020	FMO	41.2	275	CT 52 MOF, Fuel Oil Commisioning
01/15/2020	PMO	41.2	160.98	Impact loss due to curtailment on 52
01/17/2020	FMO	6.6	275	CT 52 MOF, Liquid Fuel Tuning
01/17/2020	PMO	6.6	160.98	Impact loss due to curtailment on 52
01/17/2020	FMO	11.4	275	CT 52 MOF, Liquid Fuel tuning
01/17/2020	PMO	2.3	160.98	Impact loss due to curtailment on 52
01/17/2020	FFO	3.0	275	CT 53, Forced Outage, Compressor Bleed Valve 1.1 failed ope
01/17/2020	FFO	9.1	483	PRV ST Forced Outage, Due to 53 Compressor Bleed Valve Fa
01/18/2020	FMO	19.4	275	CT 52 MOF, Liquid Fuel Tuning

- (1) FFO - FULL FORCED OUTAGE
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- FMO - FULL MAINTENANCE OUTAGE

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PLANT / UNIT: RIVIERA 05 PRV 05

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/18/2020	PMO	19.4	160.98	Impact loss due to curtailment on 52
01/19/2020	FMO	0.7	275	CT 52 MOF, Liquid Fuel Tuning
01/19/2020	PMO	0.7	160.98	Impact loss due to curtailment on 52
01/19/2020	FMO	12.5	275	CT 52 MOF, Liquid Fuel Tuning
01/19/2020	PMO	12.5	160.98	Impact loss due to curtailment on 52
01/20/2020	FMO	0.6	275	CT 52 MOF, Liquid Fuel Tuning
01/20/2020	PMO	0.6	160.98	Impact loss due to curtailment on 52
01/20/2020	FMO	37.2	275	CT 52 MOF, Liquid fuel tuning
01/20/2020	PMO	37.2	160.98	Impact loss due to curtailment on 52
01/22/2020	FMO	77.6	275	CT 52 Maintenance Outage, HRSG tube leaks
01/22/2020	PMO	77.6	160.98	Impact loss due to curtailment on 52
01/26/2020	FFO	0.9	275	CT 53 Start-up Failure, gas flow detected during purge
01/26/2020	PFO	0.9	161.03	Impact loss due to curtailment on 53
02/17/2020	FFO	0.4	275	52 EFOR Start Up Failure Fuel Gas Valve Not Opened
02/17/2020	PFO	0.4	160.98	Impact loss due to curtailment on 52
02/28/2020	FMO	69.9	275	CT 52 Maintenance Outage, Water Purge Line Repair
02/28/2020	PMO	69.9	160.98	Impact loss due to curtailment on 52
03/09/2020	FMO	35.5	275	51 Maintenance Outage - Auto Start-up Shut-down Logic Imple
03/09/2020	PMO	35.5	160.98	Impact loss due to curtailment on 51
04/03/2020	FMO	49.5	275	CT 53 SNOW, Repair HP FW Regulator Valve
04/03/2020	PMO	49.5	161.03	Impact loss due to curtailment on 53
04/07/2020	FMO	0.6	275	CT 52 MOF, Liquid Fuel Testing
04/07/2020	PMO	0.6	160.98	Impact loss due to curtailment on 52
04/10/2020	FMO	40.0	275	CT 51 MOF, Block SNOW HP Blending Isolation Valve

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PLANT / UNIT: RIVIERA 05 PRV 05

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04/10/2020	PMO	4.2	160.98	Impact loss due to curtailment on 51
04/10/2020	PMO	0.9	160.98	Impact loss due to curtailment on 52
04/10/2020	FMO	34.1	275	CT 52 MOF, Block SNOW HP Blending Isolation Valve
04/10/2020	FMO	35.8	483	ST 50 MOF, Block SNOW HP Blending Isolation Valve
04/10/2020	FMO	31.0	275	CT 53 MOF, Block SNOW HP Blending Isolation Valve
04/13/2020	FFO	0.6	275	CT 53 EFOR, Fuel Gas Double Block and Bleed Trip
04/13/2020	PFO	0.6	161.03	Impact loss due to curtailment on 53
04/13/2020	PFO	0.9	115	CT 53 EFOR, MS to CRH Bypass Fail to Open
04/26/2020	FMO	65.4	275	CT 51 SNOW, HP DSH Spray Control Valve Stem & Plug Repz
04/26/2020	PMO	65.4	160.98	Impact loss due to curtailment on 51
05/08/2020	FFO	1.1	483	PRV ST Start-up Failure due to high bearing #1 vibration
06/04/2020	FMO	40.5	275	CT 52 SNOW; HP LCV Leak By Due to Failed Balance Seal Ri
06/04/2020	PMO	40.5	160.98	Impact loss due to curtailment on 52
06/05/2020	FMO	35.1	275	CT 51 SNOW; Offline Compressor Water Wash
06/05/2020	PMO	35.1	160.98	Impact loss due to curtailment on 51
06/08/2020	PFO	3.0	115	CT 52 PARTIAL FORCED, HP Blending valve unable to go clo
06/08/2020	FFO	3.6	483	PRV ST FORCED OUTAGE; Failed Generator Multilin
06/09/2020	FFO	0.4	275	CT 53 Start Up Failure, Fuel Gas Double Block and Bleed Trip
06/09/2020	PFO	0.4	161.03	Impact loss due to curtailment on 53
06/17/2020	FFO	0.9	275	CT 52 Start-up Failure; High BPS due to low fuel gas supply
06/17/2020	PFO	0.9	160.98	Impact loss due to curtailment on 52
06/17/2020	PFO	5.0	153	ST 50 Partial Forced; Circulating Water Flow Low, Seaweed Int
06/17/2020	PFO	19.6	160.98	Impact loss due to curtailment on 51
06/17/2020	PFO	19.6	75	CT 52 Partial Forced; Circulating Water Flow Low, Seaweed Int

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DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
06/18/2020	FFO	22.9	483	ST 50 Full Forced; Circulating Water Flow Low, Seaweed Intrus
06/18/2020	FFO	20.4	275	CT 51 Full Forced; Circulating Water Flow Low, Seaweed Intrus
06/18/2020	FFO	20.4	275	CT 52 Full Forced; Circulating Water Flow Low, Seaweed Intrus
06/18/2020	FFO	20.0	275	CT 53 Full Forced; Circulating Water Flow Low, Seaweed Intrus
06/19/2020	FFO	2.2	483	ST Start-up Failure; High Bearing #1 Vibration
06/19/2020	PFO	27.7	83	ST 50 Partial Forced; LPSV Not Opening
06/19/2020	FFO	1.3	275	CT 53 Start Up Failure; Fuel Gas Double Block and Bleed Trip
06/19/2020	PFO	1.3	161.03	Impact loss due to curtailment on 53
06/22/2020	PFO	0.1	120	CT 51 Partial Forced; CRH Drain False Level Indication
07/06/2020	FFO	30.4	275	CT 53 EFOR; Boiler Feed Pump Motor Trip due to High Vibratic
07/06/2020	PFO	30.4	161.03	Impact loss due to curtailment on 53
09/22/2020	FFO	0.3	275	EFOR PRV52 TRIPPED ON HRH P2 PROTECTION
09/22/2020	PFO	0.3	160.98	Impact loss due to curtailment on 52
09/27/2020	FFO	20.7	275	PRV52 BFP Tripped on High Bearing Vibration
09/27/2020	PFO	20.7	160.98	Impact loss due to curtailment on 52
09/29/2020	FMO	106.9	275	PRV51 MOF; CT Turning Gear Engagement Troubleshoot
09/29/2020	PMO	106.9	160.98	Impact loss due to curtailment on 51
09/29/2020	FMO	109.0	275	PRV 53 MOF; IP Drum LCV
09/29/2020	PMO	109.0	161.03	Impact loss due to curtailment on 53
10/20/2020	PMO	24.6	75	PRV 52 Partial MOF - Condenser Water Box Filter Cleaning
10/20/2020	PMO	24.6	75	PRV 52 Partial MOF - Condenser Water Box Filter Cleaning
10/20/2020	PMO	24.6	273	PRV 50 Partial MOF - Condenser Water Box Filter Cleaning
10/20/2020	FMO	46.8	275	PRV 51 SNO Task MOF - Repair HP FW Regulator
10/20/2020	PMO	46.8	160.98	Impact loss due to curtailment on 51

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PLANT / UNIT: RIVIERA 05 PRV 05

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
10/22/2020	FFO	0.7	275	PRV 51 EFOR - MISSED RFC
10/22/2020	PFO	0.7	160.98	Impact loss due to curtailment on 51
10/23/2020	FMO	36.7	275	PRV 51 Block SNO - Intake Tunnel Inspection
10/23/2020	PMO	7.0	160.98	Impact loss due to curtailment on 51
10/23/2020	FMO	32.7	275	PRV 52 Block SNO - Intake Tunnel Inspection
10/23/2020	PMO	3.1	160.98	Impact loss due to curtailment on 52
10/23/2020	FMO	29.6	483	PRV 50 Block SNO - Intake Tunnel Inspection
10/23/2020	FMO	26.4	275	PRV 53 Block SNO - Intake Tunnel Inspection

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PLANT / UNIT: WEST COUNTY ENERGY 03 PWC 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/01/2020	FFO	5.7	247	PWC 3A EFOR / Full Forced - CPFM Trip
01/01/2020	PFO	5.7	156.64	Impact loss due to curtailment on 3A
01/04/2020	FFO	14.0	247	PWC 3C EFOR / Start-up Failure - Unable to Sync to Grid
01/04/2020	PFO	14.0	156.68	Impact loss due to curtailment on 3C
01/05/2020	FFO	1.9	247	PWC 3C EFOR / Full Forced - High CPFM Trip
01/05/2020	PFO	1.9	156.68	Impact loss due to curtailment on 3C
01/09/2020	FMO	118.1	247	PWC 3B Event MOF - HRSG Tube Leak
01/09/2020	PMO	118.1	156.64	Impact loss due to curtailment on 3B
01/09/2020	FFO	59.8	247	PWC 3C EFOR / Full Forced - U3 Condenser Tube Leak
01/09/2020	PFO	59.8	156.68	Impact loss due to curtailment on 3C
01/23/2020	FMO	77.3	247	PWC 3A Event MOF - Generator Breaker Relays
01/23/2020	PMO	77.3	156.64	Impact loss due to curtailment on 3A
01/27/2020	FFO	2.3	247	PWC 3A EFOR / Full Forced - Reverse Power Trip
01/27/2020	PFO	2.3	156.64	Impact loss due to curtailment on 3A
02/14/2020	FMO	35.5	247	PWC 3A Event MOF - SF6 Density Monitor Failure
02/14/2020	PMO	35.5	156.64	Impact loss due to curtailment on 3A
02/20/2020	FMO	24.1	247	PWC 3C Event MOF - CEMS Transformer
02/20/2020	PMO	24.1	156.68	Impact loss due to curtailment on 3C
03/07/2020	FMO	38.6	247	PWC 3A Event MOF - HRSG HP Drum Door Leak
03/07/2020	PMO	38.6	156.65	Impact loss due to curtailment on 3A
03/08/2020	FFO	4.4	247	PWC 3C EFOR / Start-up Failure - BFP Tripped
03/08/2020	PFO	4.4	156.69	Impact loss due to curtailment on 3C
03/13/2020	FMO	63.4	247	PWC 3C Event MOF - HRH Crack
03/13/2020	PMO	63.4	156.7	Impact loss due to curtailment on 3C

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PLANT / UNIT: WEST COUNTY ENERGY 03 PWC 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
03/28/2020	FFO	4.5	247	PWC 3B EFOR / Full Forced - MP Bleed Valve Failed Open
03/28/2020	PFO	4.5	156.65	Impact loss due to curtailment on 3B
03/30/2020	FFO	14.5	247	PWC 3B EFOR / Start-up Failure - CT Fuel Gas Low Flow
03/30/2020	PFO	14.5	156.65	Impact loss due to curtailment on 3B
04/15/2020	FMO	59.0	247	PWC 3A Event MOF - SCR Cleaning
04/15/2020	PMO	59.0	156.65	Impact loss due to curtailment on 3A
05/01/2020	FFO	1.5	247	PWC 3A EFOR / Full Forced - Software Reverse Power Trip
05/01/2020	PFO	1.5	156.65	Impact loss due to curtailment on 3A
05/02/2020	FMO	36.6	247	PWC 3A Event MOF - HP to Cooling Steam Blowdown Leak
05/02/2020	PMO	36.6	156.65	Impact loss due to curtailment on 3A
05/06/2020	FMO	401.1	247	PWC 3C Event MOF - R1 Vane Replacement
05/06/2020	PMO	400.7	156.7	Impact loss due to curtailment on 3C
05/13/2020	FFO	0.4	470	PWC 3ST EFOR / Full Forced - No Flow to Common Header T
06/06/2020	FFO	0.4	247	PWC 3C EFOR / Full Forced - High Blade Path #14 Spread
06/06/2020	PFO	0.4	156.7	Impact loss due to curtailment on 3C
06/06/2020	FFO	38.9	247	PWC 3C EFOR / Full Forced - High Blade Path #14 Spread
06/06/2020	PFO	38.9	156.7	Impact loss due to curtailment on 3C
06/08/2020	FFO	123.2	247	PWC 3C EFOR / Full Forced - High Blade Path #14 Spread
06/08/2020	PFO	123.2	156.7	Impact loss due to curtailment on 3C
08/26/2020	FPO	1191.7	247	PWC 3B POF - CT KAI Upgrade / Rotor Swap / CT Exhaust Up
08/26/2020	PPO	568.9	156.65	Impact loss due to curtailment on 3B
09/08/2020	FFO	3.6	247	PWC 3C EFOR / Full Forced - High CPFM Trip
09/08/2020	PFO	3.6	156.7	Impact loss due to curtailment on 3C
09/09/2020	PMO	1.1	156.65	Impact loss due to curtailment on 3A

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PLANT / UNIT: WEST COUNTY ENERGY 03

PWC 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
09/09/2020	FMO	600.0	247	PWC 3A Event MOF - Reliability Outage / Row 2 Replacement
09/09/2020	FMO	622.9	470	PWC 3ST Task MOF - Reliability Outage
09/09/2020	FMO	613.1	247	PWC 3C Task MOF - Reliability Outage
10/04/2020	FMO	134.3	247	PWC 3A Event MOF Extension - Reliability Outage / Row 2 Re
10/04/2020	FMO	2.4	247	PWC 3C Task MOF - Reliability Outage / Testing
10/04/2020	PMO	110.4	156.65	Impact loss due to curtailment on 3A
10/11/2020	FMO	2.7	247	PWC 3A Task MOF - Reliability Outage / Trip Testing
10/11/2020	PMO	2.7	156.65	Impact loss due to curtailment on 3A
10/12/2020	FMO	3.0	247	PWC 3A Task MOF - Reliability Outage / Trip Testing
10/12/2020	PMO	3.0	156.65	Impact loss due to curtailment on 3A

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- PFO - PARTIAL FORCED OUTAGE
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PLANT / UNIT: FORT MYERS 02 PFM 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/06/2020	FFO	5.3	192.5	PFM 2C EFOR MS to CRH Attemperator Issues
01/06/2020	PFO	5.3	72.64	Impact loss due to curtailment on 2C
01/06/2020	PFO	5.3	23.38	Impact loss due to curtailment on 2C
01/10/2020	FMO	21.6	192.5	PFM 2C Event MOF - Repair HP to CRH Spray Block Valve
01/10/2020	PMO	21.6	72.64	Impact loss due to curtailment on 2C
01/10/2020	PMO	21.6	23.38	Impact loss due to curtailment on 2C
01/16/2020	FFO	87.6	140	PFM ST1 EFOR DC Lube Oil Pump Motor Ground
01/22/2020	FMO	43.0	192.5	PFM 2A Event MOF - Clean BFP Suction Strainers
01/22/2020	PMO	43.0	72.64	Impact loss due to curtailment on 2A
01/22/2020	PMO	43.0	23.38	Impact loss due to curtailment on 2A
01/28/2020	FMO	53.4	192.5	PFM 2A Event MOF - Gas Fire Heater Delete
01/28/2020	PMO	53.4	72.64	Impact loss due to curtailment on 2A
01/28/2020	PMO	53.4	23.38	Impact loss due to curtailment on 2A
01/30/2020	FFO	6.8	192.5	PFM 2B EFOR Fire Protection Release Zone #1
01/30/2020	PFO	6.8	72.64	Impact loss due to curtailment on 2B
01/30/2020	PFO	6.8	23.38	Impact loss due to curtailment on 2B
01/30/2020	FMO	34.5	192.5	PFM 2F Event MOF - Fire Dectecion Sensor Repair
01/30/2020	PMO	34.5	72.64	Impact loss due to curtailment on 2F
01/30/2020	PMO	34.5	23.38	Impact loss due to curtailment on 2F
02/04/2020	FMO	47.6	192.5	PFM 2C Event MOF- Replace CSGG-ABV-13
02/04/2020	PMO	47.6	72.64	Impact loss due to curtailment on 2C
02/04/2020	PMO	47.6	23.38	Impact loss due to curtailment on 2C
02/06/2020	FMO	75.2	192.5	PFM 2E Task MOF - Blanking Plate Outage
02/06/2020	PMO	75.2	72.64	Impact loss due to curtailment on 2E

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- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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PLANT / UNIT: FORT MYERS 02 PFM 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
02/06/2020	PMO	75.2	23.38	Impact loss due to curtailment on 2E
02/07/2020	FMO	78.8	192.5	PFM 2F Task MOF - Blanking Plate Outage
02/07/2020	PMO	78.8	72.64	Impact loss due to curtailment on 2F
02/07/2020	PMO	78.8	23.38	Impact loss due to curtailment on 2F
02/13/2020	FMO	579.4	140	PFM ST1 Task MOF - Generator Bearing Work
02/14/2020	FMO	182.7	435	PFM ST2 Task MOF - Condenser Plug Removal
02/14/2020	FMO	174.0	192.5	PFM 2A Task MOF - Annual Reliability Outage
02/14/2020	FMO	172.1	192.5	PFM 2C Task MOF - Annual Reliability Outage
02/14/2020	FMO	179.6	192.5	PFM 2B Task MOF - Offline in Support of ST Outage
02/14/2020	FMO	171.7	192.5	PFM 2D Task MOF - Unit Offline in Support of ST Outage
02/21/2020	FFO	0.9	192.5	PFM 2C EFOR Due to BFP Trip
02/28/2020	FMO	60.0	192.5	PFM 2E Event MOF - Boroscope Inspection
02/28/2020	PMO	49.8	72.65	Impact loss due to curtailment on 2E
02/29/2020	PMO	1.1	72.65	Impact loss due to curtailment on 2A
02/29/2020	FMO	6.3	192.5	PFM 2A Event MOF - Replace Drop 1 Controller
02/29/2020	FMO	10.2	435	PFM ST2 Event MOF - Repair ACV 11
03/14/2020	FFO	7.6	192.5	PFM 2A EFOR 89SS Issues
03/14/2020	PFO	7.6	72.65	Impact loss due to curtailment on 2A
03/14/2020	PFO	7.6	23.38	Impact loss due to curtailment on 2A
03/20/2020	FPO	337.8	192.5	PFM 2E POF - Planned Generator Minor Outage
03/20/2020	PPO	337.8	72.65	Impact loss due to curtailment on 2E
03/20/2020	PPO	320.7	23.38	Impact loss due to curtailment on 2E
03/23/2020	FMO	23.6	192.5	PFM 2C Event MOF - 89ND Limit Switch Repair
03/23/2020	PMO	23.6	72.65	Impact loss due to curtailment on 2C

- (1) FFO - FULL FORCED OUTAGE
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- PO - PLANNED OUTAGE
- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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PLANT / UNIT: FORT MYERS 02 PFM 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
03/23/2020	PMO	23.6	23.38	Impact loss due to curtailment on 2C
03/26/2020	PFO	0.1	176.5	PFM 2C EFOR Runback Due to BFP Trip
03/26/2020	PFO	0.1	72.65	Impact loss due to curtailment on 2C
03/26/2020	PFO	0.1	23.38	Impact loss due to curtailment on 2C
04/02/2020	FMO	17.2	140	PFM ST1 Event MOF - LO System Pressure Adjustment
04/03/2020	FPO	22.0	192.5	PFM 2E POF Extension - Tuning
04/03/2020	PPO	22.0	72.65	Impact loss due to curtailment on 2E
04/03/2020	PPO	22.0	23.38	Impact loss due to curtailment on 2E
04/04/2020	FFO	7.5	192.5	PFM 2E EFOR ABV-13 Failure
04/04/2020	PFO	7.5	72.65	Impact loss due to curtailment on 2E
04/04/2020	PFO	7.5	23.38	Impact loss due to curtailment on 2E
04/11/2020	FMO	28.8	192.5	PFM 2E Event MOF - Replace ESGG-ABV-13
04/11/2020	PMO	28.8	72.65	Impact loss due to curtailment on 2E
04/11/2020	PMO	28.8	23.38	Impact loss due to curtailment on 2E
04/14/2020	FFO	1.3	192.5	PFM 2E EFOR #2 Hydraulic Pump Issues
04/14/2020	PFO	1.3	72.65	Impact loss due to curtailment on 2E
04/14/2020	PFO	1.3	23.38	Impact loss due to curtailment on 2E
04/15/2020	FMO	39.3	192.5	PFM 2B Event MOF - Combustion Can Replacement
04/15/2020	PMO	39.3	72.65	Impact loss due to curtailment on 2B
04/15/2020	PMO	39.3	23.38	Impact loss due to curtailment on 2B
04/22/2020	FFO	44.6	192.5	PFM 2C CT EFOR LD Tunnel High Temp Trip
04/22/2020	PFO	44.6	72.65	Impact loss due to curtailment on 2C
04/22/2020	PFO	44.6	23.38	Impact loss due to curtailment on 2C
04/24/2020	FFO	3.9	192.5	PFM 2C EFOR HP Level Control Valve Issues

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PLANT / UNIT: FORT MYERS 02 PFM 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
04/24/2020	PFO	3.9	72.65	Impact loss due to curtailment on 2C
04/24/2020	PFO	3.9	23.38	Impact loss due to curtailment on 2C
04/27/2020	FMO	23.3	192.5	PFM 2B Event MOF - Fire Protection Repairs
04/27/2020	PMO	23.3	72.65	Impact loss due to curtailment on 2B
04/27/2020	PMO	23.3	23.38	Impact loss due to curtailment on 2B
04/27/2020	FMO	71.4	192.5	PFM 2F Event MOF - Repair HRSG tube leak
04/27/2020	PMO	71.4	72.65	Impact loss due to curtailment on 2F
04/27/2020	PMO	71.4	23.38	Impact loss due to curtailment on 2F
04/28/2020	FMO	90.7	192.5	PFM 2A Event MOF - HRSG Tube Leak Repair
04/28/2020	PMO	90.7	72.65	Impact loss due to curtailment on 2A
04/28/2020	PMO	90.7	23.38	Impact loss due to curtailment on 2A
05/01/2020	FMO	20.0	192.5	PFM 2E Event MOF - Fire Protection Repair
05/01/2020	PMO	20.0	72.65	Impact loss due to curtailment on 2E
05/01/2020	PMO	20.0	23.38	Impact loss due to curtailment on 2E
05/03/2020	FMO	21.2	140	PFM ST1 Event MOF - Modify Overspeed Logic
05/03/2020	FMO	18.0	435	PFM S2 Event MOF - Load Overspeed Protection Logic
05/05/2020	FFO	1.8	192.5	PFM 2B EFOR 86G1 lockout
05/05/2020	PFO	1.8	72.65	Impact loss due to curtailment on 2B
05/05/2020	PFO	1.8	23.38	Impact loss due to curtailment on 2B
05/06/2020	FMO	64.2	192.5	PFM 2B Event MOF - HRSG Tube Leak Repairs
05/06/2020	PMO	55.6	72.65	Impact loss due to curtailment on 2B
05/06/2020	PMO	53.9	23.38	Impact loss due to curtailment on 2B
05/07/2020	FMO	10.3	140	PFM S1 Steamer Event MOF - Repair Hydraulic Oil Leak on S1
05/07/2020	FMO	8.6	435	PFM S2 Event MOF - Repair Hydraulic Oil Leak

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PLANT / UNIT: FORT MYERS 02 PFM 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
05/09/2020	FFO	0.5	192.5	PFM 2D EFOR - Fuel Gas Vent Valve solenoid
05/09/2020	PFO	0.5	72.65	Impact loss due to curtailment on 2D
05/09/2020	PFO	0.5	23.38	Impact loss due to curtailment on 2D
05/09/2020	FFO	2.0	192.5	PFM 2D CT EFOR - BFP Trip
05/09/2020	PFO	2.0	72.65	Impact loss due to curtailment on 2D
05/09/2020	PFO	2.0	23.38	Impact loss due to curtailment on 2D
05/10/2020	FMO	34.3	192.5	PFM 2C Event MOF- HP Drum Level Control Valve Rebuild
05/10/2020	PMO	34.3	72.65	Impact loss due to curtailment on 2C
05/10/2020	PMO	34.3	23.38	Impact loss due to curtailment on 2C
05/12/2020	FMO	29.8	192.5	PFM 2E Event MOF - Blowdown Piping Leak Repair
05/12/2020	PMO	29.8	72.65	Impact loss due to curtailment on 2E
05/12/2020	PMO	29.8	23.38	Impact loss due to curtailment on 2E
05/14/2020	FMO	15.7	192.5	PFM 2A Event MOF- Repair Flash Tank Pipe Leak
05/14/2020	PMO	15.7	72.65	Impact loss due to curtailment on 2A
05/14/2020	PMO	15.7	23.38	Impact loss due to curtailment on 2A
05/17/2020	FFO	28.4	192.5	PFM 2C EFOR - BFP Inboard Motor Bearing
05/17/2020	PFO	28.4	72.65	Impact loss due to curtailment on 2C
05/17/2020	PFO	28.4	23.38	Impact loss due to curtailment on 2C
05/22/2020	FFO	0.2	192.5	PFM 2C EFOR- High Fuel Gas Temperature
05/22/2020	PFO	0.2	72.65	Impact loss due to curtailment on 2C
05/22/2020	PFO	0.2	23.38	Impact loss due to curtailment on 2C
05/27/2020	FFO	2.0	192.5	2E EFOR
05/27/2020	PFO	2.0	72.65	Impact loss due to curtailment on 2E
05/27/2020	PFO	2.0	23.38	Impact loss due to curtailment on 2E

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PLANT / UNIT: FORT MYERS 02 PFM 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
05/27/2020	FMO	29.5	192.5	2F Event MOF - Repair steam leak
05/27/2020	PMO	29.5	72.65	Impact loss due to curtailment on 2F
05/27/2020	PMO	29.5	23.38	Impact loss due to curtailment on 2F
06/15/2020	FMO	24.6	192.5	PFM 2C Event MOF- Repair Flange MS to CRH Bypass valve
06/15/2020	PMO	24.6	72.65	Impact loss due to curtailment on 2C
06/15/2020	PMO	24.6	23.38	Impact loss due to curtailment on 2C
07/17/2020	FMO	49.5	192.5	PFM 2D Event MOF - Rebuild DSGA-ACV-408
07/17/2020	PMO	49.5	72.65	Impact loss due to curtailment on 2D
07/17/2020	PMO	44.0	23.38	Impact loss due to curtailment on 2D
07/17/2020	FMO	5.6	140	PFM Unit 1 Steam Turbine Event MOF - Repair 1SGG-ABV-7
07/20/2020	FMO	46.8	192.5	PFM 2C Event MOF - Repair 89ND switch
07/20/2020	PMO	46.8	72.65	Impact loss due to curtailment on 2C
07/20/2020	PMO	46.8	23.38	Impact loss due to curtailment on 2C
07/20/2020	FMO	38.5	192.5	PFM 2F Event MOF - Replace flame scanners
07/20/2020	PMO	38.5	72.65	Impact loss due to curtailment on 2F
07/20/2020	PMO	38.5	23.38	Impact loss due to curtailment on 2F
09/03/2020	FFO	6.3	192.5	PFM 2F EFOR - Failed Ignition System
09/03/2020	PFO	6.3	72.65	Impact loss due to curtailment on 2F
09/03/2020	PFO	6.3	23.38	Impact loss due to curtailment on 2F
09/03/2020	FFO	13.3	192.5	PFM 2E EFOR Fire Protection Trip
09/03/2020	PFO	13.3	72.65	Impact loss due to curtailment on 2E
09/03/2020	PFO	13.3	23.38	Impact loss due to curtailment on 2E
09/04/2020	FPO	234.7	192.5	PFM 2B Planned Outage - Generator Minor Inspection
09/04/2020	PPO	234.7	72.65	Impact loss due to curtailment on 2B

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PLANT / UNIT: FORT MYERS 02 PFM 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
09/04/2020	PPO	234.7	23.38	Impact loss due to curtailment on 2B
09/08/2020	FFO	1.1	192.5	PFM 2D EFOR - HI HI HP DRUM LEVEL TRIP
09/08/2020	PFO	1.1	72.65	Impact loss due to curtailment on 2D
09/08/2020	PFO	1.1	23.38	Impact loss due to curtailment on 2D
09/10/2020	FMO	18.5	192.5	PFM 2E Event MOF - Calibrate or Replace Hazardous Gas Mo
09/10/2020	PMO	18.5	72.65	Impact loss due to curtailment on 2E
09/10/2020	PMO	18.5	23.38	Impact loss due to curtailment on 2E
09/14/2020	FMO	314.1	192.5	PFM 2C Event MOF - Troubleshoot oil loss
09/14/2020	PMO	314.1	72.65	Impact loss due to curtailment on 2C
09/14/2020	PMO	314.1	23.38	Impact loss due to curtailment on 2C
09/21/2020	PFO	0.5	190.5	PFM 2B EFOR CDM PROBE CAN #2 FAILURE.
09/21/2020	PFO	0.5	72.65	Impact loss due to curtailment on 2B
09/21/2020	PFO	0.5	23.38	Impact loss due to curtailment on 2B
10/02/2020	PMO	3.5	23.38	Impact loss due to curtailment on 2F
10/02/2020	PMO	3.5	23.38	Impact loss due to curtailment on 2C
10/02/2020	FMO	24.0	192.5	PFM 2F Event MOF - Ignition System Repair
10/02/2020	FMO	24.0	192.5	PFM 2C Event MOF - Replace Lube Oil Mist Eliminator Motor
10/02/2020	PMO	24.0	72.65	Impact loss due to curtailment on 2F
10/02/2020	PMO	24.0	72.65	Impact loss due to curtailment on 2C
10/03/2020	FMO	25.1	140	PFM ST1 Event MOF - Repair Hydraulic Oil Leak
10/13/2020	FFO	1.1	192.5	PFM 2D EFOR - High Exhaust Temperature Spread Trip
10/13/2020	PFO	1.1	72.65	Impact loss due to curtailment on 2D
10/13/2020	PFO	1.1	23.38	Impact loss due to curtailment on 2D
10/21/2020	FMO	32.2	192.5	PFM 2F Event MOF - Repair fuel gas leaks

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- FMO - FULL MAINTENANCE OUTAGE

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COMPANY: FLORIDA POWER AND LIGHT
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PLANT / UNIT: FORT MYERS 02 PFM 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
10/21/2020	PMO	32.2	72.65	Impact loss due to curtailment on 2F
10/21/2020	PMO	32.2	23.38	Impact loss due to curtailment on 2F
10/26/2020	FFO	7.4	140	PFM ST1 EFOR - HYDRALIC OIL LEAK AT #2 STOP VLV
10/30/2020	FMO	25.8	192.5	PFM 2C Event MOF - Replace BFP Mechanical Seal
10/30/2020	PMO	25.8	72.65	Impact loss due to curtailment on 2C
10/30/2020	PMO	25.8	23.38	Impact loss due to curtailment on 2C
10/31/2020	FMO	20.4	192.5	PFM 2D Event MOF - Replace Flame Scanners
10/31/2020	PMO	20.4	72.65	Impact loss due to curtailment on 2D
10/31/2020	PMO	20.4	23.38	Impact loss due to curtailment on 2D

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ST LUCIE

01

PSL 01

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
02/06/2020	PFO	33.2	78.82	U1 UEL 4B Feed Water Drain Valve Controller 020620
07/29/2020	PPO	7.4	108.41	U1 PEL Turbine Valve Test 07292020
07/29/2020	PPO	34.6	156.6	U1 PEL 1B Heater Drain Pump-Level Control Valve 07292020
09/18/2020	PFO	31.4	315.27	U1 UEL 1A MSR Intercept Valve DEH Leak Repair 09182020

- (1) FFO - FULL FORCED OUTAGE
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PLANT / UNIT: ST LUCIE 02 PSL 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
02/15/2020	PPO	7.0	146.64	U2 PEL Down Power to ~68% foe Main Steam Safety Valve Te
02/16/2020	PPO	17.0	332.09	U2 PEL Main Steam Safety Valve Testing 021620
02/16/2020	PPO	3.0	523.11	U2 PEL Down Power for Start of SL2-25 Refueling and Mainte
02/17/2020	FPO	695.0	987	U2 PEL SL2-25 Refueling & Maintenance 021720
03/17/2020	FFO	53.3	987	U2 UEL SL2-25 Refueling Extension 03172020
03/19/2020	PPO	42.1	405.97	U2 PEL SL2-25 Power Ascension 031920

- (1) FFO - FULL FORCED OUTAGE
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PLANT / UNIT: TURKEY POINT 03 PTN 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/22/2020	PFO	17.3	35.8	PTN Unit 3 unplanned downpower due to CV-3-1414 Full open
03/28/2020	PPO	28.0	509.16	PTN Unit 3 down power to support Cycle 31 RFO
03/30/2020	FPO	588.9	837	PTN Unit 3 Cycle 31
04/23/2020	FPO	26.6	837	PTN Unit 3 MW loss due to high sodium in the main condenser
04/24/2020	FPO	17.5	837	Unit 3 Cycle 31 RFO
04/25/2020	PPO	88.4	300.96	Unit 3 Cycle 31 RFO planned power ascension
08/17/2020	FFO	40.2	837	Unit 3 Manual Rx trip due to high 3C SG level
08/19/2020	FFO	28.9	837	PTN Unit 3 Automatic Rx triip caused by N-3-31 SOurce Range
08/20/2020	PFO	5.6	755.44	PTN Unit 3 power ascension following Auto Rx trip
08/20/2020	FFO	85.2	837	Unit 3 Manual Rx Trip due to loss of running SG feed pump
08/24/2020	PFO	22.9	737	PTN Unit 3 Power ascension folloing manual Rx trip

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- PFO - PARTIAL FORCED OUTAGE
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COMPANY: FLORIDA POWER AND LIGHT

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PLANT / UNIT: TURKEY POINT 04

PTN 04

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
02/18/2020	PFO	12.9	93.8	Unit 4 unplanned downpower due to SDTC open
07/05/2020	FFO	353.8	821	Automatic Rx Trip due to main gen lockout from loss of exciter
07/20/2020	PFO	24.1	301.69	Auto RX Trip due to Main Generator Lockout from loss of exciter
10/01/2020	PPO	27.0	483.83	PTN Unit 4 down power to support MSIV testing and RFO 32
10/03/2020	FPO	696.0	821	PTN Unit 4 Cycle 32 RFO

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- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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PLANT / UNIT: WEST COUNTY ENERGY 01 PWC 01

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/01/2020	FMO	57.2	247	PWC 1B Event MOF - CT Fuel Filtration Cleaning
01/01/2020	PMO	57.2	160.64	Impact loss due to curtailment on 1B
01/05/2020	FMO	92.3	247	PWC 1C Event MOF - HP SH Spraywater Block Valve Leaking
01/05/2020	PMO	92.3	160.69	Impact loss due to curtailment on 1C
01/22/2020	FMO	49.4	247	PWC 1B Event MOF - Troubleshooting for High Blade Path Spr
01/22/2020	PMO	49.4	160.64	Impact loss due to curtailment on 1B
01/25/2020	FFO	2.6	247	PWC 1C EFOR / Full Forced - High CPFM Trip
01/25/2020	PFO	2.6	160.69	Impact loss due to curtailment on 1C
01/30/2020	FMO	39.3	247	PWC 1C Event MOF - Exhaust Expansion Joint Leak
01/30/2020	PMO	39.3	160.69	Impact loss due to curtailment on 1C
02/03/2020	FMO	44.7	247	PWC 1A Event MOF - Generator Breaker Relay Failure
02/03/2020	PMO	44.7	160.64	Impact loss due to curtailment on 1A
02/07/2020	PFO	1.6	77	PWC 1A Partial EFOR - TCA to Condenser Failed 100% Open
02/07/2020	PFO	1.6	160.64	Impact loss due to curtailment on 1A
02/09/2020	FFO	4.6	247	PWC 1C EFOR / Start-up Failure - Igniter Failure
02/09/2020	PFO	4.6	160.69	Impact loss due to curtailment on 1C
02/22/2020	FFO	3.5	247	PWC 1A EFOR / Full Forced - Low LP Drum Level Trip
02/22/2020	PFO	3.5	160.64	Impact loss due to curtailment on 1A
02/25/2020	FFO	4.4	247	PWC 1C EFOR / Full Forced - CEMS Compliance
02/25/2020	PFO	4.4	160.7	Impact loss due to curtailment on 1C
02/27/2020	FFO	7.6	247	PWC 1B EFOR / Start-up Failure - Failed to Fire / Ignitor Failur
02/27/2020	PFO	7.6	160.65	Impact loss due to curtailment on 1B
03/06/2020	FPO	477.3	247	PWC 1A Planned Outage - CT Exhaust Duct Replacement
03/06/2020	PPO	477.3	160.65	Impact loss due to curtailment on 1A

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- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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ACTUAL PERFORMANCE DATA
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PLANT / UNIT: WEST COUNTY ENERGY 01 PWC 01

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
03/08/2020	FFO	6.9	247	PWC 1B EFOR / Start-up Failure - CT Igniters Failed Function
03/08/2020	PFO	6.9	160.65	Impact loss due to curtailment on 1B
04/09/2020	FFO	9.3	247	PWC 1B EFOR / Start-up Failure - CT Failed to Fire
04/09/2020	PFO	9.3	160.65	Impact loss due to curtailment on 1B
04/10/2020	FFO	1.4	247	PWC 1A EFOR / Start-up Failure - CT Flame Out Trip
04/10/2020	PFO	1.4	160.65	Impact loss due to curtailment on 1A
04/10/2020	FFO	27.8	247	PWC 1C EFOR / Full Forced - Superheat Drain Line Failure
04/10/2020	PFO	27.8	160.7	Impact loss due to curtailment on 1C
04/30/2020	FMO	47.8	247	PWC 1A Event MOF - GSU Surge Arresters
04/30/2020	PMO	47.8	160.65	Impact loss due to curtailment on 1A
05/07/2020	FFO	3.7	247	PWC 1C EFOR / Full Forced - Abnormal CT Barometric Presst
05/07/2020	PFO	3.7	160.7	Impact loss due to curtailment on 1C
05/26/2020	PFO	2.1	161	PWC 1ST EFOR / Derating - 1C Received HRSG Unblend Sigr
05/26/2020	FFO	3.5	247	PWC 1C EFOR / Full Forced - Trip Request from Ovation to Di
05/26/2020	PFO	3.5	160.7	Impact loss due to curtailment on 1C
05/29/2020	PFO	1.4	372	PWC 1ST EFOR / Partial - 1C HRH Isolation Valve Closed
07/03/2020	FMO	103.3	247	PWC 1C Event MOF - Reliability Outage
07/03/2020	PMO	103.3	160.7	Impact loss due to curtailment on 1C
07/08/2020	FMO	9.1	247	PWC 1C Event MOF - Reliability Outage / Unit Testing
07/08/2020	PMO	9.1	160.7	Impact loss due to curtailment on 1C
07/09/2020	FFO	8.4	482	PWC 1ST EFOR / Full Forced / OMC - Corbett Substation Gro
07/09/2020	FFO	11.8	247	PWC 1A EFOR / Full Forced / OMC - Corbett Substation Grou
07/09/2020	PFO	3.4	160.65	Impact loss due to curtailment on 1A
07/24/2020	FMO	47.3	247	PWC 1C Event MOF - Cooling Steam Attemperator Leak

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- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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From: Jan-2020

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PLANT / UNIT: WEST COUNTY ENERGY 01

PWC 01

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
07/24/2020	PMO	47.3	160.7	Impact loss due to curtailment on 1C
08/04/2020	FMO	59.5	247	PWC 1B Event MOF - Cooling Steam Drain Leak
08/04/2020	PMO	59.5	160.65	Impact loss due to curtailment on 1B
08/11/2020	FFO	2.8	247	PWC 1A EFOR / Full Forced - HP Feedwater Isolation Valve Fa
08/11/2020	PFO	2.8	160.65	Impact loss due to curtailment on 1A
08/27/2020	FMO	2.2	482	PWC 1ST Task MOF - NERC Mod 26 Testing
09/04/2020	FFO	5.7	247	PWC 1C EFOR / Full Forced - CPFM Trip due to Low Exhaust
09/04/2020	PFO	5.7	160.7	Impact loss due to curtailment on 1C
09/12/2020	FMO	52.4	247	PWC 1B Event MOF - CT Compartment MP Bleed Air Leak
09/12/2020	PMO	52.4	160.65	Impact loss due to curtailment on 1B
09/24/2020	FFO	1.5	247	PWC 1B EFOR / Full Forced - Condenser Protection
09/24/2020	PFO	1.5	160.65	Impact loss due to curtailment on 1B
10/14/2020	PPO	8.0	160.7	Impact loss due to curtailment on 1C
10/14/2020	FPO	429.4	247	1C CT POF Annual Reliability During 1ST Major Overhaul
10/14/2020	PPO	3.0	160.65	Impact loss due to curtailment on 1B
10/14/2020	FPO	424.4	247	1B CT POF Annual Reliability During 1ST Major Overhaul
10/14/2020	FPO	421.4	482	1ST POF Major Overhaul
10/14/2020	FPO	421.1	247	1A CT POF Annual Reliability During 1ST Major Overhaul

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- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

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PLANT / UNIT: WEST COUNTY ENERGY 02 PWC 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/19/2020	FFO	50.1	247	PWC 2C EFOR / Full Forced - IP Economizer Drain Tube Leak
01/19/2020	PFO	50.1	160.7	Impact loss due to curtailment on 2C
02/06/2020	FMO	25.1	247	PWC 2B Event MOF - Cooling Steam Drain Line Leak
02/06/2020	PMO	25.1	160.63	Impact loss due to curtailment on 2B
02/07/2020	FFO	4.9	247	PWC 2A EFOR / Start-up Failure - CPU# 1 Interlock Failure
02/07/2020	PFO	4.9	160.63	Impact loss due to curtailment on 2A
02/16/2020	PFO	39.9	67	PWC 2B Partial EFOR - GSU Fan Bank Out
02/22/2020	FFO	0.5	482	PWC 2ST EFOR / Full Forced - Low Vacuum Trip
02/23/2020	FFO	5.9	482	PWC 2ST EFOR / Full Forced - Low EHC Oil
03/07/2020	FMO	28.5	247	PWC 2A Event MOF - IP Feedwater Transmitter Leak
03/07/2020	PMO	28.5	160.64	Impact loss due to curtailment on 2A
04/01/2020	FMO	65.3	247	PWC 2C Event MOF - IP Economizer Tube Leak
04/01/2020	PMO	65.3	160.7	Impact loss due to curtailment on 2C
04/20/2020	FFO	0.5	247	PWC 2A EFOR / Full Forced - Low HP Drum Level
04/20/2020	PFO	0.5	160.65	Impact loss due to curtailment on 2B
04/20/2020	FFO	4.2	247	PWC 2A EFOR / Full Focred - BFP Low Flow
04/20/2020	PFO	4.2	160.65	Impact loss due to curtailment on 2A
04/30/2020	PMO	2.2	160.65	Impact loss due to curtailment on 2A
04/30/2020	FMO	170.8	247	PWC 2A Event MOF - Block Reliability Outage
04/30/2020	PMO	1.7	160.7	Impact loss due to curtailment on 2C
04/30/2020	FMO	123.2	247	PWC 2C Event MOF - CT / HRSG Reliability Outage
04/30/2020	FMO	191.6	482	PWC 2ST Event MOF - Block Reliability Outage
04/30/2020	FMO	144.6	247	PWC 2B Event MOF - Block Reliability Outage
05/05/2020	FMO	215.0	247	PWC 2C Event MOF - CT / HRSG Reliability Outage / Trip Test

- (1) FFO - FULL FORCED OUTAGE
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- FMO - FULL MAINTENANCE OUTAGE

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PLANT / UNIT: WEST COUNTY ENERGY 02 PWC 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
05/06/2020	FMO	39.0	247	PWC 2B Task MOF - Block Reliability Outage / TripTest
05/07/2020	FMO	23.8	247	PWC 2A Task MOF - Block Reliability Outage / Trip Test
05/08/2020	PMO	0.7	160.65	Impact loss due to curtailment on 2A
05/08/2020	PMO	144.9	160.7	Impact loss due to curtailment on 2C
05/14/2020	FMO	34.0	247	PWC 2B Event MOF - Blowdown Header Leak
05/14/2020	PMO	34.0	160.65	Impact loss due to curtailment on 2B
05/22/2020	FMO	136.6	247	PWC 2C Event MOF - HRSG Tube Leaks
05/22/2020	PMO	136.6	160.7	Impact loss due to curtailment on 2C
05/30/2020	FFO	3.0	247	PWC 2A EFOR / Start-up Failure - TCA Valve Failed to Operate
05/30/2020	PFO	3.0	160.65	Impact loss due to curtailment on 2A
06/04/2020	FFO	2.4	247	PWC 2B EFOR / Full Forced - Delayed HP to Cooling Steam Ti
06/04/2020	PFO	2.4	160.65	Impact loss due to curtailment on 2B
06/07/2020	FFO	7.8	247	PWC 2C EFOR / Full Forced - BFP Multilin Failure
06/07/2020	PFO	7.8	160.7	Impact loss due to curtailment on 2C
06/15/2020	FMO	162.9	247	PWC 2B Event MOF - Reliability Outage
06/15/2020	PMO	162.9	160.65	Impact loss due to curtailment on 2B
07/22/2020	FMO	93.0	247	PWC 2C Event MOF - HRSG IP Economizer Tube Leak
07/22/2020	PMO	93.0	160.7	Impact loss due to curtailment on 2C
07/22/2020	FMO	35.0	247	PWC 2A Event MOF - HRSG Blowdown Line Leak
07/22/2020	PMO	35.0	160.65	Impact loss due to curtailment on 2A
08/06/2020	FMO	105.5	247	PWC 2A Event MOF - HP to Cooling Steam Drain Leak
08/06/2020	PMO	105.5	160.65	Impact loss due to curtailment on 2A
09/12/2020	FFO	27.8	247	PWC 2B EFOR / Full Forced - CT Enclosure Control Oil Leak &
09/12/2020	PFO	27.8	160.65	Impact loss due to curtailment on 2B

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PLANT / UNIT: WEST COUNTY ENERGY 02

PWC 02

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
09/23/2020	FMO	29.9	247	PWC 2A Event MOF - Ammonia Blower Skid
09/23/2020	PMO	29.9	160.65	Impact loss due to curtailment on 2A
09/24/2020	FMO	82.8	247	PWC 2B Event MOF - IP Economizer Tube Leak
09/24/2020	PMO	82.8	160.65	Impact loss due to curtailment on 2B
09/28/2020	FFO	2.2	247	PWC 2B EFOR / Full Forced - High Drum Level Trip
09/28/2020	PFO	2.2	160.65	Impact loss due to curtailment on 2B

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PLANT / UNIT: MANATEE UNIT 3 CC 03 PM3 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/04/2020	PMO	52.3	112.25	Impact loss due to curtailment on 3D
01/04/2020	FMO	226.2	193.5	PMT 3D Task MOF - Annual reliability outage for steam turbine
01/05/2020	FMO	203.8	193.5	PMT 3C Task MOF - Annual reliability outage for steam turbine
01/05/2020	PMO	29.8	112.25	Impact loss due to curtailment on 3C
01/07/2020	FMO	174.1	449	PMT 3ST Task MOF - Annual reliability outage for steam turbine
01/07/2020	FMO	170.5	193.5	PMT 3A Task MOF - Annual reliability outage for steam turbine
01/07/2020	FMO	167.8	193.5	PMT 3B Task MOF - Annual reliability outage for steam turbine
01/22/2020	FFO	0.2	193.5	PMT 3B EFOR - Generator breaker tripped due to fuel stroke r
01/22/2020	PFO	0.2	112.25	Impact loss due to curtailment on 3B
02/17/2020	FFO	0.0	193.5	PMT 3C EFOR - Trip due to #2 compressor bleed valve slow cl
02/17/2020	PFO	0.0	112.25	Impact loss due to curtailment on 3C
02/17/2020	FFO	0.1	193.5	PMT 3C EFOR - Trip due to #2 compressor bleed valve slow cl
02/17/2020	PFO	0.1	112.25	Impact loss due to curtailment on 3C
02/25/2020	FFO	0.4	193.5	PMT 3B EFOR - Unit would not sync due to "difference in volts"
02/25/2020	PFO	0.4	112.25	Impact loss due to curtailment on 3B
02/28/2020	FFO	4.6	193.5	PMT 3D EFOR - 3D could not start due to OBB failed position
02/28/2020	PFO	4.6	112.25	Impact loss due to curtailment on 3D
03/19/2020	FFO	2.9	193.5	PMT 3C EFOR - Failure of PM2 gas valve
03/19/2020	PFO	2.9	112.25	Impact loss due to curtailment on 3C
04/01/2020	FFO	18.5	193.5	PMT 3B EFOR - Unit tripped due to L86 generator lockout
04/01/2020	PFO	18.5	112.25	Impact loss due to curtailment on 3B
04/10/2020	FFO	3.9	193.5	PMT 3B EFOR - Issue with Inlet Guide Vane LVDT
04/10/2020	PFO	3.9	112.25	Impact loss due to curtailment on 3B
04/25/2020	FMO	49.2	193.5	PMT 3A Task MOF - SNOW taken to calibrate gas flow transmi

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PLANT / UNIT: MANATEE UNIT 3 CC 03 PM3 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
04/25/2020	PMO	49.2	112.25	Impact loss due to curtailment on 3A
04/30/2020	FFO	2.0	193.5	3A EFOR - Mark VI T Core UCSB controller card failed
04/30/2020	PFO	2.0	112.25	Impact loss due to curtailment on 3A
05/08/2020	FMO	87.0	193.5	PMT 3D Task MOF - SNOW taken to install 2 instrumented noz
05/08/2020	PMO	87.0	112.25	Impact loss due to curtailment on 3D
05/08/2020	FMO	71.4	193.5	PMT 3B Event MOF - SNOW taken to address GSU oil leak
05/08/2020	PMO	71.4	112.25	Impact loss due to curtailment on 3B
05/13/2020	FFO	0.4	193.5	PMT 3B EFOR - 3B Failed to fire during startup
05/13/2020	PFO	0.4	112.25	Impact loss due to curtailment on 3B
05/19/2020	FFO	0.7	193.5	3A EFOR - Mark VI R Core UCSB controller card failed
05/19/2020	PFO	0.7	112.25	Impact loss due to curtailment on 3A
06/28/2020	FMO	6.1	193.5	PMT 3A Event MOF - SNOW to fix flange leak in turbine compa
06/28/2020	PMO	6.1	112.25	Impact loss due to curtailment on 3A
07/17/2020	FMO	70.9	193.5	3A MOF - Crossfire Tube Replacment
07/17/2020	PMO	70.9	112.25	Impact loss due to curtailment on 3A
07/21/2020	FMO	23.8	193.5	3C SNOW - Lube Oil Filter Replacement
07/21/2020	PMO	23.8	112.25	Impact loss due to curtailment on 3C
07/29/2020	FFO	0.4	193.5	3C Full Forced - High Drum Level Trip
07/29/2020	PFO	0.4	112.25	Impact loss due to curtailment on 3C
07/31/2020	FMO	4.0	193.5	3A MOF - Repair HP Spray Sensing Line Leak
07/31/2020	PMO	4.0	112.25	Impact loss due to curtailment on 3A
08/15/2020	FFO	2.3	193.5	PMT3C EFOR - Overboard Bleed Valve Failure
08/15/2020	PFO	2.3	112.25	Impact loss due to curtailment on 3C
08/25/2020	FFO	4.3	193.5	PMT 3A Startup Failure - Failed to start due to failed igniters

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PLANT / UNIT: MANATEE UNIT 3 CC 03 PM3 03

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
08/25/2020	PFO	4.3	112.25	Impact loss due to curtailment on 3A
09/05/2020	FMO	27.6	193.5	PMT 3A Event MOF - SNOW to replace turning gear controller
09/05/2020	PMO	27.6	112.25	Impact loss due to curtailment on 3A
09/11/2020	FFO	0.5	193.5	PMT 3D Startup Failure - Haz gas trip due to SRV packing leak
09/11/2020	PFO	0.5	112.25	Impact loss due to curtailment on 3D
09/16/2020	FFO	0.9	193.5	PMT 3A EFOR - Unit tripped due to failed Ovation analog output
09/16/2020	PFO	0.9	112.25	Impact loss due to curtailment on 3A
09/16/2020	FFO	1.0	193.5	PMT 3A EFOR - Failed to start due to gas vent valve issues
09/16/2020	PFO	1.0	112.25	Impact loss due to curtailment on 3A
09/22/2020	FMO	27.2	193.5	PMT 3C Event MOF - SNOW taken to rewire igniter alarm
09/22/2020	PMO	27.2	112.25	Impact loss due to curtailment on 3C
09/24/2020	FFO	4.8	193.5	PMT 3C EFOR - Failed Fuel Gas Aux Stop Valve
09/24/2020	PFO	4.8	112.25	Impact loss due to curtailment on 3C
09/27/2020	FFO	0.5	193.5	PMT 3A EFOR - Unit trip due to hi-hi haz gas in CT compartment
09/27/2020	PFO	0.5	112.25	Impact loss due to curtailment on 3A
09/29/2020	FMO	26.3	193.5	PMT 3C Event MOF - SNOW taken to replace aux stop gas valve
09/29/2020	PMO	26.3	112.25	Impact loss due to curtailment on 3C
10/02/2020	FMO	26.9	193.5	PMT 3A Event MOF - SNOW taken to replace SRV
10/02/2020	PMO	26.9	112.25	Impact loss due to curtailment on 3A
10/04/2020	FMO	22.9	193.5	PMT 3D Event MOF - SNOW taken to replace SRV
10/04/2020	PMO	22.9	112.25	Impact loss due to curtailment on 3D
10/05/2020	FFO	2.7	193.5	PMT 3D EFOR - IP Feedwater Valve failed closed prior to start
10/05/2020	PFO	2.7	112.25	Impact loss due to curtailment on 3D

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- PFO - PARTIAL FORCED OUTAGE
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PLANT / UNIT: MARTIN-UNIT 8 08 PM8 08

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
01/08/2020	FMO	32.9	191.5	PMR 8D Event MOF - Liquid Fuel Stop Valve Inspection
01/08/2020	PMO	32.9	113	Impact loss due to curtailment on 8D
01/19/2020	PFO	27.3	79.5	PMR 8A Partial EFOR - Overboard Bleed Valve Failure to Clos
01/20/2020	FMO	71.0	191.5	PMR 8A Event MOF - HRSG Superheat Tube Leak
01/20/2020	PMO	71.0	113	Impact loss due to curtailment on 8A
02/13/2020	PMO	3.0	113	Impact loss due to curtailment on 8D
02/13/2020	FMO	144.8	191.5	PMR 8D Task MOF - Abridged Reliability Outage - Project 6964
02/13/2020	PMO	1.1	113	Impact loss due to curtailment on 8C
02/13/2020	FMO	142.5	191.5	PMR 8C Task MOF - Abridged Reliability Outage - Project 6964
02/13/2020	FMO	146.3	452	PMR 8ST Task MOF - Abridged Reliability Outage - Project 6964
02/13/2020	FMO	385.1	191.5	PMR 8A Task MOF - Annual Reliability Outage - Project 48280
02/13/2020	FMO	361.0	191.5	PMR 8B Task MOF - Annual Reliability Outage - Project 48281
02/20/2020	PMO	215.5	113	Impact loss due to curtailment on 8B
02/20/2020	PMO	239.2	113	Impact loss due to curtailment on 8A
03/01/2020	FMO	0.0	191.5	PMR 8A Task MOF - Annual Reliability Project 48280
03/01/2020	PMO	0.0	113	Impact loss due to curtailment on 8A
03/01/2020	FMO	11.8	191.5	PMR 8A Task MOF Extension - Tuning After Outage Project 48280
03/01/2020	PMO	11.8	113	Impact loss due to curtailment on 8A
03/03/2020	FMO	0.0	191.5	PMR 8A Task MOF - Annual Reliability Project 48280
03/03/2020	PMO	0.0	113	Impact loss due to curtailment on 8A
03/03/2020	FMO	18.5	191.5	PMR 8A Task MOF Extension - Tuning After Outage Project 48280
03/03/2020	PMO	18.5	113	Impact loss due to curtailment on 8A
03/05/2020	FMO	0.0	191.5	PMR 8A Task MOF - Annual Reliability Project 48280
03/05/2020	PMO	0.0	113	Impact loss due to curtailment on 8A

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PLANT / UNIT: MARTIN-UNIT 8 08 PM8 08

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
03/05/2020	FMO	5.4	191.5	PMR 8A Task MOF Extension – Tuning After Outage Project 48280
03/05/2020	PMO	5.4	113	Impact loss due to curtailment on 8A
03/10/2020	FFO	7.4	191.5	PMR 8D Start-Up Failure - Atomizing Air Compressor Breaker (
03/10/2020	PFO	7.4	113	Impact loss due to curtailment on 8D
03/10/2020	FMO	0.0	191.5	PMR 8A Task MOF – Annual Reliability Project 48280
03/10/2020	PMO	0.0	113	Impact loss due to curtailment on 8A
03/10/2020	FMO	38.3	191.5	PMR 8A Task MOF Extension – Tuning After Outage Project 48280
03/10/2020	PMO	38.3	113	Impact loss due to curtailment on 8A
03/12/2020	PFO	29.5	88	PMR 8B Partial Forced Outage - 8B Overboard Bleed Valve Sc
03/20/2020	FMO	37.2	191.5	PMR 8B Event MOF - CT Outlet Exp Joint Repair
03/20/2020	PMO	37.2	113	Impact loss due to curtailment on 8B
04/24/2020	FMO	84.0	191.5	PMR 8B Event MOF - CT A042 Exhaust Duct Repair
04/24/2020	PMO	84.0	113	Impact loss due to curtailment on 8B
04/27/2020	FMO	45.4	191.5	PMR 8A Event MOF - CT PM-4 Gas Valve Replacement
04/27/2020	PMO	45.4	113	Impact loss due to curtailment on 8A
04/30/2020	FMO	62.2	191.5	PMR 8D Event MOF - Liquid Fuel Stop Valve Replacement
04/30/2020	PMO	62.2	113	Impact loss due to curtailment on 8D
06/01/2020	PMO	21.0	113	Impact loss due to curtailment on 8D
06/01/2020	FMO	149.9	191.5	PMR 8D Event MOF - Cooling Tower Circ Line Repair
06/02/2020	PMO	10.3	113	Impact loss due to curtailment on 8B
06/02/2020	FMO	139.3	191.5	PMR 8B Event MOF - Cooling Tower Circ Pipe Repair
06/02/2020	FMO	133.8	452	PMR 8ST Event MOF - Cooling Tower Circ Line Repair
06/02/2020	FMO	137.2	191.5	PMR 8C Event MOF - Cooling Tower Circ Pipe Repair
06/02/2020	FMO	139.1	191.5	PMR 8A Event MOF - Main Steam Blending Valve Repair

- (1) FFO - FULL FORCED OUTAGE
- PPO - PARTIAL PLANNED OUTAGE
- PMO - PARTIAL MAINTENANCE OUTAGE
- PO - PLANNED OUTAGE
- PFO - PARTIAL FORCED OUTAGE
- FMO - FULL MAINTENANCE OUTAGE

FILED:
SUSPENDED:
EFFECTIVE:
DOCKET NO.:
ORDER NO.:

ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
From: Jan-2020 To: Dec-2020

PLANT / UNIT: MARTIN-UNIT 8 08 PM8 08

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
06/08/2020	PMO	4.2	113	Impact loss due to curtailment on 8C
06/08/2020	PMO	6.2	113	Impact loss due to curtailment on 8A
06/10/2020	FFO	3.6	191.5	PMR 8C Forced Outage - High Exhaust Spread - Fuel Line Cor
06/10/2020	PFO	3.6	113	Impact loss due to curtailment on 8C
06/10/2020	FFO	0.2	191.5	PMR 8C Forced Outage - High Exhaust Spread - Fuel Line Cor
06/10/2020	PFO	0.2	113	Impact loss due to curtailment on 8C
06/10/2020	FFO	3.2	191.5	PMR 8C Forced Outage - High Exhaust Spread - Fuel Line Cor
06/10/2020	PFO	3.2	113	Impact loss due to curtailment on 8C
06/10/2020	FFO	1.8	191.5	PMR 8C Forced Outage - High Exhaust Spread - Fuel Line Cor
06/10/2020	PFO	1.8	113	Impact loss due to curtailment on 8C
06/10/2020	FFO	87.7	191.5	PMR 8C Forced Outage - High Exhaust Spread - Fuel Line Cor
06/10/2020	PFO	87.7	113	Impact loss due to curtailment on 8C
06/14/2020	FMO	88.5	191.5	PMR 8C Event MOF - CT Combustor Can Replacement
06/14/2020	PMO	88.5	113	Impact loss due to curtailment on 8C
06/20/2020	FMO	2.4	191.5	PMR 8C Event MOF - Liquid Fuel Startup Strainer Removal
06/20/2020	PMO	2.4	113	Impact loss due to curtailment on 8C
07/16/2020	FMO	85.6	191.5	PMR 8C Event MOF - HRSG Tube Leaks
07/16/2020	PMO	85.6	113	Impact loss due to curtailment on 8C
07/21/2020	FMO	38.7	191.5	PMR 8A Event MOF - AA Comp Disch Line Crack Repair
07/21/2020	PMO	38.7	113	Impact loss due to curtailment on 8A
07/22/2020	FMO	45.3	191.5	PMR 8D Event MOF - Air Purge Valve Cleaning
07/22/2020	PMO	45.3	113	Impact loss due to curtailment on 8D
07/27/2020	FMO	71.7	191.5	PMR 8A Event MOF - HRSG Tube Leaks
07/27/2020	PMO	71.7	113	Impact loss due to curtailment on 8A

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ACTUAL PERFORMANCE DATA
COMPANY: FLORIDA POWER AND LIGHT
From: Jan-2020 To: Dec-2020

PLANT / UNIT: MARTIN-UNIT 8 08 PM8 08

DATE	OUTAGE TYPE(1)	HOURS	(MW) AFFECTED	DESCRIPTION
08/02/2020	FFO	6.7	191.5	PMR 8B Forced Outage - Gen Exciter Controller C
08/02/2020	PFO	6.7	113	Impact loss due to curtailment on 8B
08/07/2020	FFO	1.8	191.5	PMR 8B Forced Outage - SRV Closed Causing Loss of Flame
08/07/2020	PFO	1.8	113	Impact loss due to curtailment on 8B
08/20/2020	FMO	61.2	191.5	PMR 8C SNOW - HRSG Tube Leaks
08/20/2020	PMO	61.2	113	Impact loss due to curtailment on 8C
08/31/2020	FFO	1.3	191.5	PMR 8B Forced Outage - SRV Closed Causing Loss of Flame
08/31/2020	PFO	1.3	113	Impact loss due to curtailment on 8B
08/31/2020	FFO	2.2	191.5	PMR 8B Forced Outage - SRV Closed Causing Loss of Flame
08/31/2020	PFO	2.2	113	Impact loss due to curtailment on 8B
09/09/2020	FMO	47.1	191.5	PMR 8B SNOW - HRSG Tube Leaks
09/09/2020	PMO	47.1	113	Impact loss due to curtailment on 8B
09/11/2020	FFO	1.2	191.5	PMR 8B Forced Outage - Low BFP Suction Pressure
09/11/2020	PFO	1.2	113	Impact loss due to curtailment on 8B
09/21/2020	FMO	66.9	191.5	PMR8A - SNOW - Offline Water Wash and Various Inspections
09/21/2020	PMO	66.9	113	Impact loss due to curtailment on 8A
10/02/2020	FFO	1.5	191.5	PMR 8B Forced Outage - Watt Transducer Wiring
10/02/2020	PFO	1.5	113	Impact loss due to curtailment on 8B
10/09/2020	FMO	53.9	191.5	PMR 8B SNOW - HRSG Drain Valves
10/09/2020	PMO	53.9	113	Impact loss due to curtailment on 8B

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ISSUED BY: FLORIDA POWER & LIGHT CO.

**GPIF Units
Actual Performance Data (ACRONYMS) for 2020**

ACRONYMS	DESCRIPTION
FTEs	Full Time Equivalent Employees including: Headcount, O.T. i.e. Overtime, & Contractors
"R"	Mark VI "R" Processor
1A2	Unit 1 Pump A2
1B	Unit 1 Pump B
1SGG-ABV-7	Ft. Myers Steam Turbine 1 steam inlet block valve (west side block valve)
2A	Unit 2 Combustion Turbine (sub unit A)
2A CT - 2A 230	Combustion Turbine (sub unit A) - 2A Collector Bus
2A HDP	2 Alpha High Differential Pressure
2B	Unit 2 Combustion Turbine (sub unit B)
2B CT - 2A 230	Combustion Turbine (sub unit B) - 2A Collector Bus
2B MSR	2 Bravo Moisture Separator Reheater
2B1	Unit 2 Pump B1
2C	Unit 2 Combustion Turbine (sub unit C)
2C CT - 2A 230	Combustion Turbine (sub unit C) - 2A Collector Bus
2D	Unit 2 Combustion Turbine (sub unit D)
2E	Unit 2 Combustion Turbine (sub unit E)
2F	Unit 2 Combustion Turbine (sub unit F)
3 CTB	Unit 3 Combustion Turbine (sub unit B)
3A	Unit 3 Combustion Turbine (sub unit A)
3B	Unit 3 Combustion Turbine (sub unit B)
3C	Unit 3 Combustion Turbine (sub unit C)
3D	Unit 3 Combustion Turbine (sub unit D)
3SAR	Three Step Aged Rotor
3ST	Unit 3 Steam Turbine
41AC-1	Breaker 1 for Power Supply to Exciter
41AC-2	Breaker 2 for Power Supply to Exciter
4A	Unit 4 Combustion Turbine (sub unit A)
4A SGFP	4A Steam Generator Feedwater Pump
4B	Unit 4 Combustion Turbine (sub unit B)
4C	Unit 4 Combustion Turbine (sub unit C)
4D	Unit 4 Combustion Turbine (sub unit D)
4KV	4 Thousand Volts
5A	Unit 5 Combustion Turbine (sub unit A)
5B	Unit 5 Combustion Turbine (sub unit B)
5C	Unit 5 Combustion Turbine (sub unit C)
5D	Unit 5 Combustion Turbine (sub unit D)
5ST	Unit 5 Steam Turbine
86G1	Generator Protection Relay Lockout
89ND	Neutral disconnect switch on the generator
89SS	Static Start Switch
8A	Unit 8 Combustion Turbine (sub unit A)
8B	Unit 8 Combustion Turbine (sub unit B)
8C	Unit 8 Combustion Turbine (sub unit C)
8D	Unit 8 Combustion Turbine (sub unit D)
8X	Unit 8 Steam Turbine
A042	Name given to the circular exhaust duct of the combustion turbine, before it transitions into the square inlet duct to the HRSG
AA	Anhydrous Ammonia
AA Comp Disch	Atomizing Air Compressor Discharge

**GPIF Units
Actual Performance Data (ACRONYMS) for 2020**

ACRONYMS	DESCRIPTION
AA HX	Atomizing Air Heat Exchanger
ABV	Air Block Valve
ACV 11	Reverse Flow Valve in Auxiliary Steam Supply System
ACV-3	Automatic Control Valve # 3
ACV-408	Air Control Valve Tag 408
AFW	Auxiliary Feed Water
AIG	Ammonia Injection Grid
ANOHR	AVERAGE Net Operating Heat Rate
ASGJ-BV-27ED	A (unit 2A) SGJ (hot reheat to condenser) BV (block valve) 27 (#) ED (valve bypass)
AUX	Auxiliary
AVR	Automatic Voltage Regulator
BAB36	European designation for foundation mounted cabinet. 36 is the switch # located in that cabinet
BBLs	Barrels
BFP	Boiler Feed Pump
BFPT	Boiler Feed Pump Turbine
BRG	Bearing
BRK	Breaker
BSGG	Unit B, main steam section of HRSG
BTU	British Thermal Units
CBV	Compressor Bleed Valve
CCW	Closed Cooling Water
CDM	Combustion dynamics monitor
CEA	Control Element Assembly
CEA 38	Control Element Assembly Number 38
CEA 65	Control Element Assembly Number 65
CED	Compressor Exit Diffuser
CEDM	Control Element Drive Mechanism
CEMS	Continuous Emissions Monitoring System
CF	Capacity Factor
Circ	Circulating (water pump)
com	Communication
comm	Communication
CPFM	Combustor Pressure Fluctuation Monitor
Cpk	Process Capability Index – or process variability considering specs; ‘C _{pk} should be 1.33 [4 sigma] or higher to satisfy most customers.’
CPU#1	Central Processing Unit #1
CRH	Cold Reheat
CSGG-ABV-13	Main Steam High Pressure Bypass Spray Isolation Valve
CT	Combustion Turbine
CT C	Combustion Turbine (sub unit C)
CTG SRV	Speed Ratio Valve on Combustion Turbine (gas system)
CV-4-1510	Control Valve Number 4-1510
CVA	Cyber (security) Vulnerability Assessment
CW	Circulating Water
CWP	Circulating Water Pump
DCS	Distributed Control System
DEH	Digital Electro Hydraulic
DFS	Debris Filtration System
diff	Differential
DLN	Dry Low Nox
DP	Differential Pressure

**GPIF Units
Actual Performance Data (ACRONYMS) for 2020**

ACRONYMS	DESCRIPTION
DSH	DeSuperHeater
DSGA-ACV-408	Ft. Myers 2D HP drum inlet feedwater control valve (HRSG – Heat Recovery Steam Generator)
DWATT	Term used by General Electric as Auxiliary Megawatt Transducer
DWATT XDUCER	Megawatt transducer
DX	DeXcitation
EAF	Equivalent Availability Factor
ECCS	Emergency Core Cooling System
EFOR	Equivalent Forced Outage Rate
EFPD	Effective Full Power Days
EHC	Hydraulic
EHD	Enhanced Hot Day
EJ	Expansion Joint
EOC	End of cycle
EPU	Extended Power Uprate
ESGA	System code for Ft. Myers 2E HRSG
ESGG	System code for Ft. Myers 2E CT Main Steam (HP)
ESV	Emergency Stop Valves
EXP	Expansion
Fa	Failed
FCBBS	Florida Cost Based Broker System
FENA	Future Enterprise Network A
FFO	Full Forced Outage
FGT	Florida Gas Transmission
FME	Foreign Material Exclusion
FMO	Full Maintenance Outage
FMPA	Florida Municipal Power Agency
FPI	Fluorescent penetrant inspection
FPO	Full Planned Outage
FPSC	Florida Public Service Commission
FRV	Feedwater Regulating Valve
FSGJ	F is the unit (2F) SGJ is the system designator
FSNL	Full Speed No Load
FW	Feedwater
FWA	Boiler Feedwater
FWC	Feedwater Control
GCV	Gas Control Valve
GE	General Electric
GPIF	Generating Performance Incentive Factor
GSU	Generator Step Up
GTE	Generator Terminal Enclose
GV2	Cooling Valve
Haz	Hazardous
HC	Headcount
HCO	Hydraulic Clearance Optimization
HDP	Heater Drain Pump
HI	High
HMI	Human Machine Interface
HP	High Pressure
HRH	Hot Reheat

**GPIF Units
Actual Performance Data (ACRONYMS) for 2020**

ACRONYMS	DESCRIPTION
HRSG	Heat Recovery Steam Generator
HTF	Heat Transfer Fluid
I/O	Input / Output
IBH	Inlet Bleed Heat Valve
ID	Induced Draft
IGV	Inlet guide vanes
Instr.	Instrumentation
IP	Intermediate Pressure
IRP	Integrated Resource Plan
ISO	Isolation
kWh	Kilowatt Hour
LCI	Load Commutating Inverter
LCO	Limiting Conditions for Operation
LCV	Level Control Valve
LD	Load
LEFM	Leading Edge Flow Meter
LF	Liquid Fuel
LL	Low Low
LO	Low
LO	Lube oil
LOI	Letter of Instruction
LP	Low Pressure
LPSV	Low Pressure Stop Valve
LVDT	Linear Variable Differential Transformer, essentially a positioner
MAJOR	Major Overhaul
MCC	Motor Control Center
MCF	Million cubic feet
MF PP	Main Feed Pump
MFIV	Main Feed Isolation Valve
MFW	Main Feed Water
MG	Motor Generator
MMBTU	Million British Thermal Units
MOF	Maintenance Outage Factor
MOF/AA	Maintenance Outage Factor / Atomizing Air
MOV	Motorized Operating Valve
MP	Main pressure
MRE	Manuel Reject
MS	Main Steam
MS	Main Steam
MSIV	Main Steam Isolation Valves
MSR	Moisture Separator Reheater
MSSV	Main Steam Safety Valve
MTC	Moderator Temperature Coefficient
MTC	Moderator Temperature Coefficient
MUV	Motor actuated <u>U</u> nidirectional <u>V</u> alve
MW	Megawatt
MW	Megawatt
MWh	Megawatt Hour
ND	Neutral Disconnect
NEE	NEXTEra Energy

**GPIF Units
Actual Performance Data (ACRONYMS) for 2020**

ACRONYMS	DESCRIPTION
NEL	Net Energy for Load
NHR	Net Heat Rate
NO	No
NSC	Net Summer Continuous Capacity
O/H	Overhaul
OBB	Overboard bleed valve
OLWW	Off-Line Water Wash
OMC	Outside Management Control
OS	Off-system Sales
OUC	Orlando Utilities Commission
P&C	Protect and Control
PDM	Power Delivery Module
PEL	Planned Energy Loss
PFM	Ft. Myers
PFO	Partial Forced Outage
PM1	Gas Valve Number 1
PM3	Gas Valve Number 3
PM-4	Gas valve PM-4 (Gas valves on the 7FA turbine are referred to as PM-1 thru PM-4)
PMG	Martin
PMO	Partial Maintenance Outage
Pmp	Pump
PMT	Manatee
PO	Planned Outage
POF	Planned Outage Factor
PPA	Purchased Power Agreement
PPO	Partial Planned Outage
PSE	Cooling Steam Supply
PSF	Cooling Steam Return
PSL	St Lucie
PSR	Sanford
PT	Potential transformer
PWR	Power
QF	Qualifying Facilities
R	Repair
R0	Row 0 blades on steam turbine
R1	Row 1 blades on steam turbine
RAP	Resource Assessment & Planning Dept.
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
RFC	Ready For Control
RFO	Refueling Outage
RH	Reheat
RPS	Reactor Protection System
RSD	Reserve Shutdown
RSV	Reheat Stop Valve
RSV1	Reheat Stop Valve Number 1
RV	Release Valve
RW	Repetitive Work
RX	Reactor
S/U	Startup
SCR	Selective Catalytic Reduction

**GPIF Units
Actual Performance Data (ACRONYMS) for 2020**

ACRONYMS	DESCRIPTION
SDTC	Steam Dump to Condenser
SF6	Name of gas used to minimize arc flashes in generator breakers
SFC	Static Frequency Starter
SGFP	Steam Generator Feed Pump
SGG	Main Steam - High Pressure
SGJ-ACV-10	System Designator Air Control Valve
SH	Super heat
SIT	Safety Injection Tank
SL1-23	St Lucie Unit 1 cycle 23 refueling outage
SL2-19	St Lucie Unit 2 cycle 19 refueling outage
SNO	Short Notice Outage
SNOW	Short Notice Outage Work
SRV	Speed Ratio Valve
ST	Steam Turbine
ST1	Steam Turbine Number 1
ST2	Steam Turbine Number 2
STARS	Strategic Anti Rotation Stall Surge testing
STG or SG	Steam Generator
STM 1	Steam Turbine Number 1
STM 2	Steam Turbine Number 2
SUS	Secondary Unit Substation
T-Ave	Temperature Average
TC or T/Cs	Thermal/Couples
TCA	Turbine Cooling Air
TCW HX	Turbine Cooling Water Heat Exchanger
TMOF	Task MOF
TVT	Turbine Valve Testing
TYSP	Ten Year Site Plan
U1	Unit 1
U2	Unit 2
UCSB	Universal Controller version SB
UEL	Unplanned Energy Loss
ULPM1	Ultra Lean Pre-Mix Valve # 1
UPS	Unit Power Sales Agreement
VCMI	Communication interface board for Mark 6 ovation system
VGW	Variable Guide Vane
Vi	Roman Numeral 6
VLV	Valve
VSV	Variable Stator Vanes
VTUR	"V" stands for speed and "TUR" is for turbine
WI	Water Injection
WO	Work
Wobbee	Water warms up gas fired units to 35 MWs. After that, permissive Wobbee takes it to base load.
WW	Water wash
XFMR	Transformer