

Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

September 3, 2004

Mr. Gregg M. Worley, Chief
Air Permits Section
U.S. EPA, Region 4
61 Forsyth Street
Atlanta, Georgia 30303-8960

RE: Seminole Electric Cooperative
Payne Creek Generating Station Peaker Project
0490340-003-AC, PSD-FL-344

Dear Mr. Worley:

Enclosed for your review and comment is a PSD application submitted by Seminole Electric Cooperative, Inc. to construct ten simple cycle combustion turbines at their existing Payne Creek Generating Station in Hardee County, Florida.

Your comments may be forwarded to my attention at the letterhead address or faxed to the Bureau of Air Regulation at 850/921-9533. If you have any questions, please contact Mike Halpin, review engineer, at 850/921-9519.

Sincerely,

for James K. Pennington, P.E.
Administrator
North Permitting Section

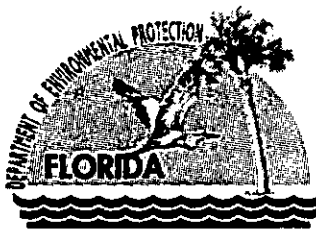
JKP/pa

Enclosure

cc: M. Halpin

"More Protection, Less Process"

Printed on recycled paper.



Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

September 1, 2004

Mr. John Bunyak, Chief
Policy, Planning & Permit Review Branch
NPS – Air Quality Division
12795 W. Alameda Parkway
Lakewood, Colorado 80228

RE: Seminole Electric Cooperative
Payne Creek Generating Station Peaker Project
0490340-003-AC, PSD-FL-344

Dear Mr. Bunyak:

Enclosed for your review and comment is a PSD application submitted by Seminole Electric Cooperative, Inc. to construct ten simple cycle combustion turbines at their existing Payne Creek Generating Station in Hardee County, Florida.

Your comments may be forwarded to my attention at the letterhead address or faxed to the Bureau of Air Regulation at 850/921-9533. If you have any questions, please contact Mike Halpin, review engineer, at 850/921-9519.

Sincerely,

for James K. Pennington, P.E.
Administrator
North Permitting Section

JKP/pa

Enclosure

cc: M. Halpin

"More Protection, Less Process"

Printed on recycled paper.

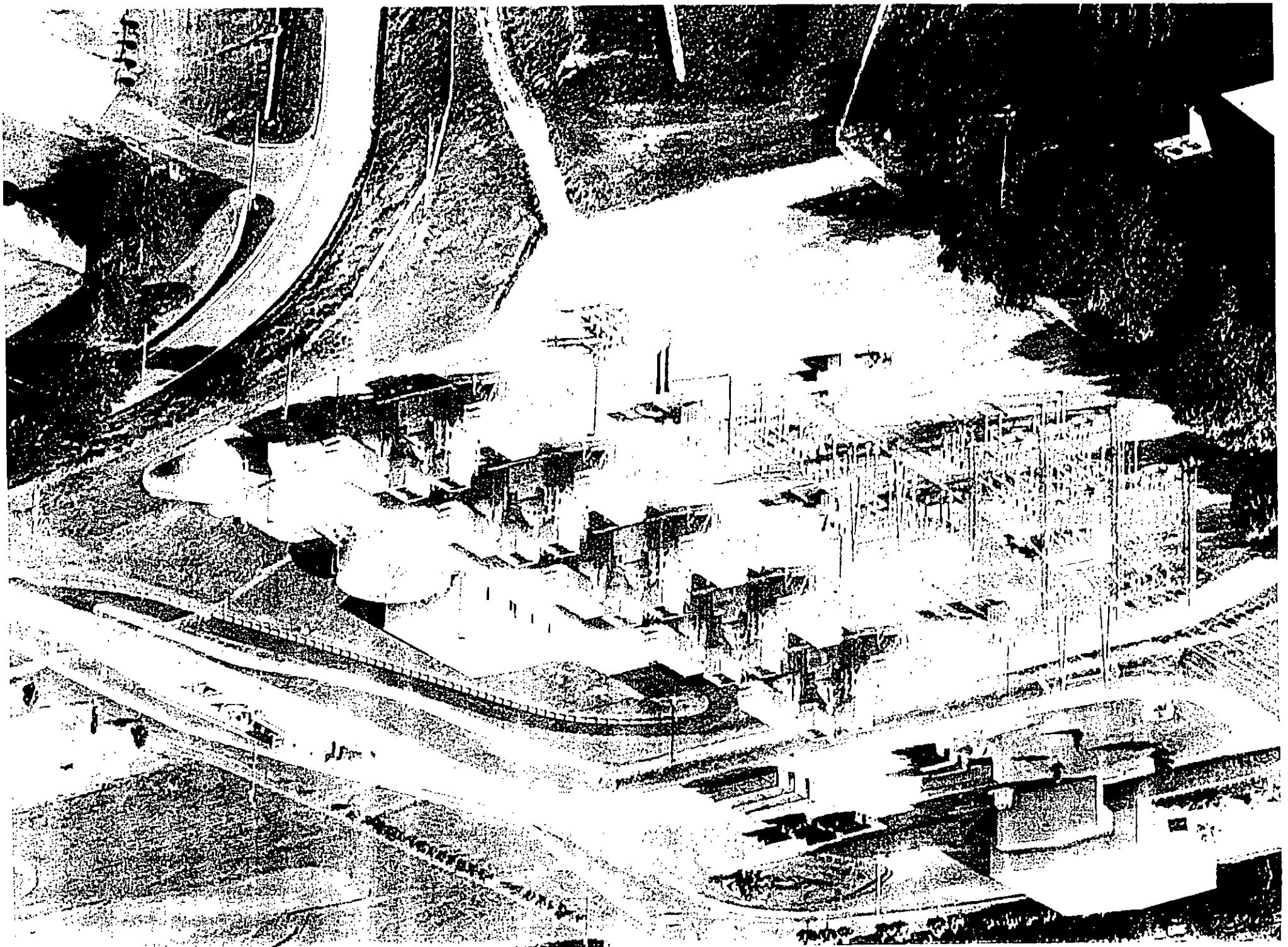
SEMINOLE ELECTRIC COOPERATIVE, INC.

2006 PEAKING PROJECT

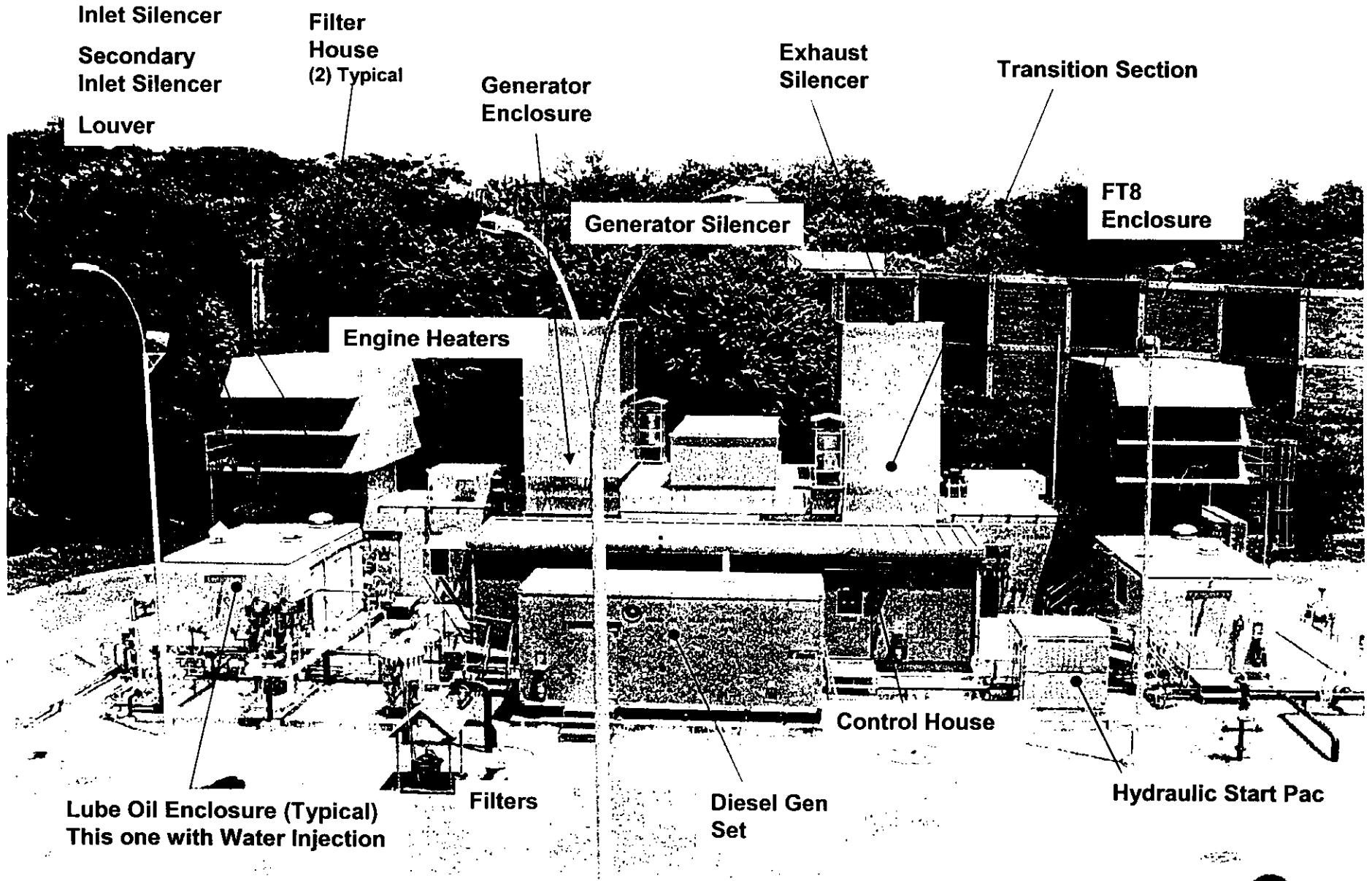
SEMINOLE ELECTRIC COOPERATIVE, INC. 2006 PEAKING PROJECT

- **Total Capacity** **310/270 MW**
(Winter/Summer)

- **(5) Pratt & Whitney TwinPacs (FT8-3)**
- **Units rated 62/54 MW each**
- **Quick-start, aero-derivative design**
- **Dual fuel capability**



Typical FT8 TWINPAC



Inlet Silencer

Secondary
Inlet Silencer

Louver

Filter
House
(2) Typical

Generator
Enclosure

Exhaust
Silencer

Transition Section

FT8
Enclosure

Generator Silencer

Engine Heaters

Control House

Hydraulic Start Pac

Lube Oil Enclosure (Typical)
This one with Water Injection

Filters

Diesel Gen
Set

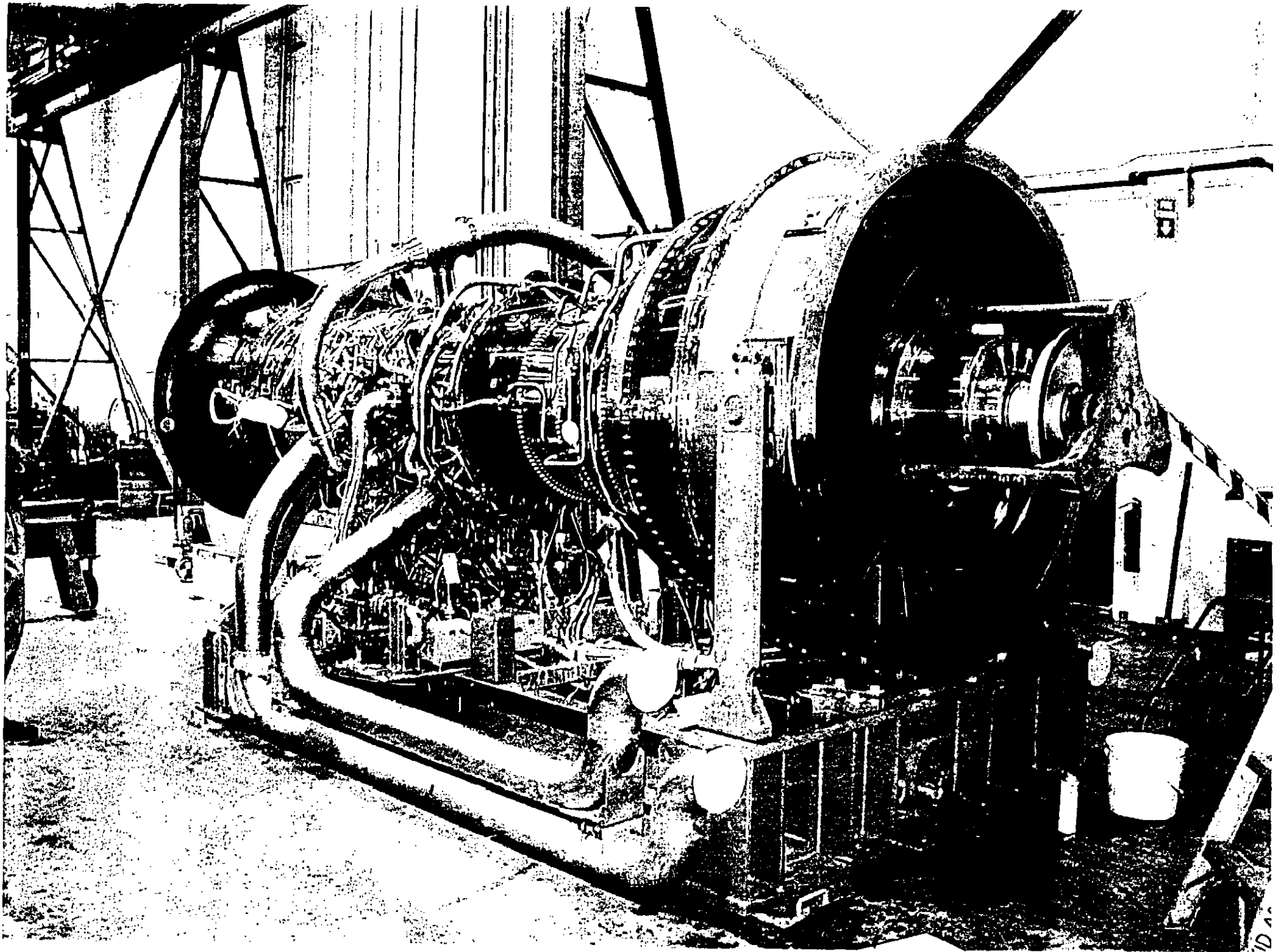


EXHIBIT 9

REV A

**FT8-3 Twin Pac (SP)
Estimated Performance and Emissions Data**

Seminole Power

Configuration: FT8-3 Swift Pac
60 Ft. Stack with CO Converter
Water Injected to indicated levels of NOx

	100	100	100	75	50	25	100	100	100	75	50	25	
	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	No2 F.O.	No2 F.O.	No2 F.O.	No2 F.O.	No2 F.O.	No2 F.O.	
Percent Load	100	100	100	75	50	25	100	100	100	75	50	25	
Fuel Type	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	No2 F.O.	No2 F.O.	No2 F.O.	No2 F.O.	No2 F.O.	No2 F.O.	
Ambient Pressure	PSIA	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	
Ambient Temperature	Deg F	32	59	95	95	95	32	59	95	95	95	95	
Relative Humidity	%	80	80	80	80	80	80	80	80	80	80	80	
Inlet Loss	in H2O	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Exhaust Loss	in H2O	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5	5	
Lower Heating Value	BTU/lb	20778	20778	20778	20778	20778	18360	18360	18360	18360	18360	18360	
Gross Power Output	kW	62476	60915	54181	40636	27090	13546	56080	56154	52239	39180	26120	13060
Gross Heat Rate (LHV)	BTU/kWh	9162	9305	9590	10156	11280	14826	9328	9477	9816	10454	11629	15299
Power Island Aux. Loads	kW	252	252	252	252	252	252	277	277	277	277	277	277
Net Power Output	kW	62224	60663	53929	(G) 40384	26838	13294	55803	55877	51962	(G) 38903	25843	12783
Net Heat Rate (LHV)	BTU/kWh	9199	9344	9830	(G) 10220	11386	15107	9375	9524	10065	(G) 10529	11754	15631
Fuel Flow per GT	PPH	13774	13640	12504	9930	7353	4833	14249	14492	13965	11155	8272	5441
Water Inj. Flow per GT	GPM	29.6	30.6	28.5	20.5	13.9	8.0	31.9	33.6	34.3	25.0	16.7	9.4
GT Exhaust Flow per GT	PPS	208.9	201.9	185.8	161.5	136.7	109.5	202.7	196.0	184.5	159.6	135.0	108.3
GT Exhaust Temperature	Deg F	848	901	935	879	831	778	808	868	936	882	836	783
Exhaust Emissions per GT													
NOX - ref. To 15% O2	ppmvd	25.0	25.0	25.0	(G) 25.0	25.0	30.0	42.0	42.0	42.0	(G) 42.0	42	42
	PPH	31.6	31.8	29.4	(G) 22.6	16.7	13.2	49.6	50.5	50.2	(G) 38.5	28.5	18.7
CO - ref. To 15% O2	ppmvd	20	20	20	(G) 31	47	74	7	6	<10	(G) 7	9	16
	PPH	15.4	15.5	14.3	(G) 16.9	19.3	19.9	4.8	4.1	3.2	(G) 3.8	3.9	4.3
VOC (as CH4)- ref. To 15%	ppmvd	6	6	6	7	15	30	5	5	5	5	6	22
	PPH	2.6	2.7	2.5	2.3	3.6	4.5	2.1	2.1	2.1	1.6	1.4	3.4
Filterable Particulates	PPH	3.0	3.0	3.0	3.0	3.0	3.0	7.0	7.0	7.0	7.0	7.0	7.0
SO2	PPH	0.23	0.22	0.20	0.17	0.15	0.12	14.2	14.5	14.0	11.2	8.3	5.4
Opacity	%	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Exhaust Composition at GT Exit													
N2	Vol %	72.90	72.02	69.77	70.44	71.10	71.89	73.63	72.70	70.15	70.78	71.46	72.26
Ar	Vol %	0.87	0.86	0.83	0.84	0.85	0.86	0.88	0.87	0.83	0.84	0.85	0.86
CO2	Vol %	3.18	3.29	3.27	2.91	2.56	2.12	4.07	4.26	4.44	3.95	3.48	2.86
H2O	Vol %	9.69	10.93	13.79	12.58	11.40	9.95	7.47	8.75	12.10	11.07	10.00	8.70
O2	Vol %	13.35	12.89	12.32	13.21	14.08	15.17	13.94	13.42	12.47	13.34	14.21	15.31

7/9/2002
Rev 1/14/03
Rev 2/17/03

- Notes:
1. Fuels supplied to gas turbines must meet PWPS fuel specification FR-1 and FR-2
 2. Water used for injection must meet AR-1.
 3. Net Power = Power measured at the generator terminals minus the indicated power island aux. loads.
 4. Gaseous fuel as per customer RFQ.
 5. Assumed No2 FO properties - LHV = 18360 BTU/lb, HCR = .147, wt% S = 0.05, FBN = <0.015%, ASH = <0.005%.
 6. Guarantees indicated by (G); all other data is expected.

FT8-3 Twin Pac (SP) Estimated Performance and Emissions Data

Seminole Power

Configuration: FT8-3 Swift Pac
60 Ft. Stack without CO Catalyst
Water Injected to indicated levels of NO_x

	100	100	100	75	50	25	100	100	100	75	50	25	
Percent Load													
Fuel Type	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	Nat. Gas	No2 FO	No2 FO	No2 FO	No2 FO	No2 FO	No2 FO	
Ambient Pressure	PSIA	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	
Ambient Temperature	Deg F	32	59	95	95	95	32	59	95	95	95	95	
Relative Humidity	%	80	80	80	80	80	80	80	80	80	80	80	
Inlet Loss	in H2O	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Exhaust Loss	in H2O	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Lower Heating Value	BTU/lb	20778	20778	20778	20778	20778	18360	18360	18360	18360	18360	18360	
Gross Power Output	kW	62708	61180	54461	40844	27230	13614	56303	56372	52254	39394	26262	13132
Gross Heat Rate (LHV)	BTU/kWh	9123	9265	9544	10097	11200	14693	9284	9433	9767	10390	11545	15158
Power Island Aux. Loads	kW	252	252	252	252	252	252	277	277	277	277	277	277
Net Power Output	kW	62456	60928	54209	40592	26978	13362	56026	56095	52247	39117	25985	12855
Net Heat Rate (LHV)	BTU/kWh	9160	9303	9780	10159	11305	14970	9330	9479	10015	10464	11668	15485
Fuel Flow per GT	PPH	13767	13640	12508	9924	7339	4814	14235	14481	13970	11147	8257	5421
Water Inj. Flow per GT	GPM	29.6	30.6	28.5	20.5	13.9	7.9	31.8	33.6	34.3	24.9	16.7	9.3
GT Exhaust Flow per GT	PPS	208.8	201.9	185.9	161.6	136.7	109.4	202.7	196.0	184.6	159.7	135.0	108.3
GT Exhaust Temperature	Deg F	845	899	932	876	827	774	805	865	933	879	832	778
Exhaust Emissions per GT													
NOX - ref. To 15% O2	ppmvd	25	25	25	25	25	30	42	42	42	42	42	42
	PPH	31.6	31.8	29.4	22.6	16.7	13.2	49.6	50.4	50.2	38.5	28.5	18.7
CO - ref. To 15% O2	ppmvd	60	60	60	93	142	226	20	14	11	18	29	48
	PPH	46.1	46.5	43.0	51.1	57.8	60.1	14.4	10.2	8.0	10.0	12.0	13.0
VOC - ref. To 15% O2	ppmvd	6	6	6	7	15	30	5	5	5	5	6	22
	PPH	2.6	2.7	2.5	2.3	3.6	4.5	2.1	2.1	2.1	1.6	1.4	3.4
Filterable Particulates	PPH	3.0	3.0	3.0	3.0	3.0	3.0	7.0	7.0	7.0	7.0	7.0	7.0
SO2	PPH	0.23	0.22	0.20	0.17	0.15	0.12	14.2	14.5	14.0	11.1	8.3	5.4
Opacity	%	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Exhaust Composition at GT Exit													
N2	Vol %												
Ar	Vol %	72.91	72.02	69.77	70.45	71.11	71.90	73.64	72.70	70.15	70.79	71.47	72.28
CO2	Vol %	0.87	0.86	0.83	0.84	0.85	0.86	0.88	0.87	0.84	0.84	0.85	0.86
H2O	Vol %	3.18	3.29	3.27	2.91	2.56	2.11	4.06	4.26	4.44	3.95	3.47	2.85
O2	Vol %	9.68	10.92	13.79	12.57	11.38	9.92	7.46	8.75	12.09	11.07	9.98	8.68
		13.36	12.89	12.33	13.22	14.09	15.19	13.95	13.42	12.47	13.35	14.22	15.32

1/14/2003

- Notes:
1. Fuels supplied to gas turbines must meet PWPS fuel specification FR-1 and FR-2.
 2. Water used for injection must meet AR-1.
 3. Net Power = Power measured at the generator terminals minus the indicated power island aux. loads.
 4. Gaseous fuel as per customer RFQ.
 5. Assumed No2 FO properties - LHV = 18360 BTU/lb, HCR = .147, wt% S = 0.05, FBN = <0.015%, ASH = <0.005%.

**SEMINOLE ELECTRIC COOPERATIVE, INC.
2006 PEAKING PROJECT SCHEDULE**

Activity

Site Selection	June 2003
File RUS Loan Application	Sept. 2003
File Env. Permit Application	Sept. 2003
Permit Approval	Oct. 2004
Architect/Engineer Selection	Dec. 2004
Conditional RUS Loan Approval	Dec. 2004
Env. Permit Approvals	May 2005
Final Loan Approval	June 2005
Construction Begins	Feb. 2006
Generation Equipment Delivery	April 2006
Initial Operation	Oct. 2006
Commercial Operation	Dec. 2006