

# AUSLEY & McMULLEN

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET  
P.O. BOX 391 (ZIP 32302)  
TALLAHASSEE, FLORIDA 32301  
(850) 224-9115 FAX (850) 222-7560

ORIGINAL

May 1, 2000

HAND DELIVERED

RECEIVED-FPSC

PM 4:05

J AND JING

Ms. Blanca S. Bayo, Director  
Division of Records and Reporting  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

Re: Tampa Electric Company's Ten Year Site Plan

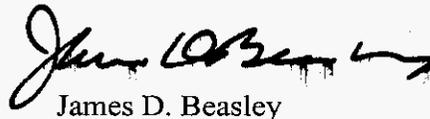
Dear Ms. Bayo:

Enclosed for filing on behalf of Tampa Electric Company are twenty-five (25) copies of revised pages of Schedule 9 numbered IV-9 through IV-16 pertaining to projected unit financial data of Tampa Electric's proposed generating units. We would appreciate your distributing these revised pages to the recipients of Tampa Electric's original filing with the Commission on April 3, 2000.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/pp  
Enclosures

cc: Michael Haff (w/enc.)

- \_\_\_\_\_ AFA
- \_\_\_\_\_ CFP
- \_\_\_\_\_ CWP
- \_\_\_\_\_ CMA
- \_\_\_\_\_ CTR
- \_\_\_\_\_ EAG 10
- \_\_\_\_\_ LEG
- \_\_\_\_\_ MAS
- \_\_\_\_\_ OPI
- \_\_\_\_\_ EXR
- \_\_\_\_\_ SEC 1
- \_\_\_\_\_ SPW
- \_\_\_\_\_ GDI

SEARCHED & FILED  
MAY 1 2000  
BUREAU OF RECORDS

DOCUMENT NUMBER-DATE

05401 MAY-18

FPSC-RECORDS/REPORTING

**SCHEDULE 9**

**TABLE IV-4  
(Page 1 of 8)**

**STATUS REPORT AND SPECIFICATIONS OF PROPOSED GENERATING FACILITIES  
UTILITY: TAMPA ELECTRIC COMPANY**

(1)	PLANT NAME AND UNIT NUMBER	POLK UNIT 2
(2)	CAPACITY	
	A. SUMMER	155
	B. WINTER	180
(3)	TECHNOLOGY TYPE	COMBUSTION TURBINE
(4)	ANTICIPATED CONSTRUCTION TIMING	
	A. FIELD CONSTRUCTION START-DATE	NOV 1999
	B. COMMERCIAL IN-SERVICE DATE	SEPT 2000
(5)	FUEL	
	A. PRIMARY FUEL	NATURAL GAS
	B. ALTERNATE FUEL	DISTILLATE OIL
(6)	AIR POLLUTION CONTROL STRATEGY	DRY LOW NO <sub>x</sub> BURNER
(7)	COOLING METHOD	N/A
(8)	TOTAL SITE AREA <sup>2</sup>	APPROXIMATELY 4,347 ACRES
(9)	CONSTRUCTION STATUS	UNDER CONSTRUCTION
(10)	CERTIFICATION STATUS	CERTIFIED
(11)	STATUS WITH FEDERAL AGENCIES	Construction Permits Obtained
(12)	PROJECTED UNIT PERFORMANCE DATA	
	PLANNED OUTAGE FACTOR (POF)	1.9
	FORCED OUTAGE RATE (FOR)	3.4
	EQUIVALENT AVAILABILITY FACTOR (EAF)	94
	RESULTING CAPACITY FACTOR (2001)	12%
	AVERAGE NET OPERATING HEAT RATE (ANOHR) <sup>1</sup>	10,580 Btu/kWh
(13)	PROJECTED UNIT FINANCIAL DATA	
	BOOK LIFE (YEARS)	30
	TOTAL INSTALLED COST (IN-SERVICE YEAR \$/kW)	301.44
	DIRECT CONSTRUCTION COST (\$/kW)	292.59
	AFUDC AMOUNT (\$/kW)	6.15
	ESCALATION (\$/kW)	2.69
	FIXED O&M (2001 \$/kW-YR)	2.13
	VARIABLE O&M (2001 \$/MWh)	2.86
	K-FACTOR <sup>1</sup>	1.565

<sup>1</sup> BASED ON IN-SERVICE YEAR.

<sup>2</sup> REPRESENTS TOTAL POLK SITE.

**SCHEDULE 9**

**TABLE IV-4**

(Page 2 of 8)

**STATUS REPORT AND SPECIFICATIONS OF PROPOSED GENERATING FACILITIES  
UTILITY: TAMPA ELECTRIC COMPANY**

(1)	PLANT NAME AND UNIT NUMBER	POLK UNIT 3
(2)	CAPACITY	
	A. SUMMER	155
	B. WINTER	180
(3)	TECHNOLOGY TYPE	COMBUSTION TURBINE
(4)	ANTICIPATED CONSTRUCTION TIMING	
	A. FIELD CONSTRUCTION START DATE	OCT 2001
	B. COMMERCIAL IN-SERVICE DATE	MAY 2002
(5)	FUEL	
	A. PRIMARY FUEL	NATURAL GAS
	B. ALTERNATE FUEL	DISTILLATE OIL
(6)	AIR POLLUTION CONTROL STRATEGY	DRY LOW NO <sub>x</sub> BURNER
(7)	COOLING METHOD	N/A
(8)	TOTAL SITE AREA <sup>2</sup>	APPROXIMATELY 4,347 ACRES
(9)	CONSTRUCTION STATUS	UNDER CONSTRUCTION
(10)	CERTIFICATION STATUS	CERTIFIED
(11)	STATUS WITH FEDERAL AGENCIES	Construction Permits Obtained
(12)	PROJECTED UNIT PERFORMANCE DATA	
	PLANNED OUTAGE FACTOR (POF)	1.9
	FORCED OUTAGE RATE (FOR)	3.4
	EQUIVALENT AVAILABILITY FACTOR (EAF)	94
	RESULTING CAPACITY FACTOR (2003)	8%
	AVERAGE NET OPERATING HEAT RATE (ANOHR) <sup>1</sup>	10,580 Btu/kWh
(13)	PROJECTED UNIT FINANCIAL DATA	
	BOOK LIFE (YEARS)	30
	TOTAL INSTALLED COST (IN-SERVICE YEAR \$/kW)	314.51
	DIRECT CONSTRUCTION COST (\$/kW)	292.59
	AFUDC AMOUNT (\$/kW)	6.42
	ESCALATION (\$/kW)	15.50
	FIXED O&M (2001 \$/kW-YR)	2.23
	VARIABLE O&M (2001 \$/MWh)	2.99
	K-FACTOR <sup>1</sup>	1.347

<sup>1</sup> BASED ON IN-SERVICE YEAR.

<sup>2</sup> REPRESENTS TOTAL POLK SITE.

**SCHEDULE 9**

**TABLE IV-4  
(Page 3 of 8)**

**STATUS REPORT AND SPECIFICATIONS OF PROPOSED GENERATING FACILITIES  
UTILITY: TAMPA ELECTRIC COMPANY**

(1)	PLANT NAME AND UNIT NUMBER	BAYSIDE UNIT 1
(2)	CAPACITY	
	A. SUMMER	698
	B. WINTER	796
(3)	TECHNOLOGY TYPE	COMBINED CYCLE
(4)	ANTICIPATED CONSTRUCTION TIMING	
	A. FIELD CONSTRUCTION START DATE	OCT 2001
	B. COMMERCIAL IN-SERVICE DATE	MAY 2003
(5)	FUEL	
	A. PRIMARY FUEL	NATURAL GAS
	B. ALTERNATE FUEL	DISTILLATE OIL
(6)	AIR POLLUTION CONTROL STRATEGY	ENGINEERING IN-PROGRESS
(7)	COOLING METHOD	ENGINEERING IN-PROGRESS
(8)	TOTAL SITE AREA <sup>2</sup>	APPROXIMATELY 213 ACRES
(9)	CONSTRUCTION STATUS	ENGINEERING IN-PROGRESS
(10)	CERTIFICATION STATUS	N/A
(11)	STATUS WITH FEDERAL AGENCIES	Permit Application in-progress
(12)	PROJECTED UNIT PERFORMANCE DATA	
	PLANNED OUTAGE FACTOR (POF)	3.9
	FORCED OUTAGE RATE (FOR)	5
	EQUIVALENT AVAILABILITY FACTOR (EAF)	91
	RESULTING CAPACITY FACTOR (2004)	55%
	AVERAGE NET OPERATING HEAT RATE (ANOHR) <sup>1</sup>	7,080 Btu/kWh
(13)	PROJECTED UNIT FINANCIAL DATA	
	BOOK LIFE (YEARS)	30
	TOTAL INSTALLED COST (IN-SERVICE YEAR \$/kW)	391.43
	DIRECT CONSTRUCTION COST (\$/kW)	341.54
	AFUDC AMOUNT (\$/kW)	31.64
	ESCALATION (\$/kW)	18.24
	FIXED O&M (2001 \$/kW-YR)	6.44
	VARIABLE O&M (2001 \$/MWh)	0.62
	K-FACTOR <sup>1</sup>	1.366

<sup>1</sup> BASED ON IN-SERVICE YEAR.

<sup>2</sup> REPRESENTS TOTAL GANNON OR BAYSIDE SITE.

**SCHEDULE 9**

**TABLE IV-4  
(Page 4 of 8)**

**STATUS REPORT AND SPECIFICATIONS OF PROPOSED GENERATING FACILITIES  
UTILITY: TAMPA ELECTRIC COMPANY**

(1)	PLANT NAME AND UNIT NUMBER	BAYSIDE UNIT 2
(2)	CAPACITY	
	A. SUMMER	711
	B. WINTER	802
(3)	TECHNOLOGY TYPE	COMBINED CYCLE
(4)	ANTICIPATED CONSTRUCTION TIMING	
	A. FIELD CONSTRUCTION START DATE	AUG 2002
	B. COMMERCIAL IN-SERVICE DATE	MAY 2004
(5)	FUEL	
	A. PRIMARY FUEL	NATURAL GAS
	B. ALTERNATE FUEL	DISTILLATE OIL
(6)	AIR POLLUTION CONTROL STRATEGY	ENGINEERING IN-PROGRESS
(7)	COOLING METHOD	ENGINEERING IN-PROGRESS
(8)	TOTAL SITE AREA <sup>2</sup>	APPROXIMATELY 213 ACRES
(9)	CONSTRUCTION STATUS	ENGINEERING IN-PROGRESS
(10)	CERTIFICATION STATUS	N/A
(11)	STATUS WITH FEDERAL AGENCIES	Permit Application in-progress
(12)	PROJECTED UNIT PERFORMANCE DATA	
	PLANNED OUTAGE FACTOR (POF)	3.9
	FORCED OUTAGE RATE (FOR)	5
	EQUIVALENT AVAILABILITY FACTOR (EAF)	91
	RESULTING CAPACITY FACTOR (2005)	40%
	AVERAGE NET OPERATING HEAT RATE (ANOHR) <sup>1</sup>	7,050 Btu/kWh
(13)	PROJECTED UNIT FINANCIAL DATA	
	BOOK LIFE (YEARS)	30
	TOTAL INSTALLED COST (IN-SERVICE YEAR \$/kW)	420.27
	DIRECT CONSTRUCTION COST (\$/kW)	349.40
	AFUDC AMOUNT (\$/kW)	48.52
	ESCALATION (\$/kW)	22.35
	FIXED O&M (2001 \$/kW-YR)	6.54
	VARIABLE O&M (2001 \$/MWh)	0.63
	K-FACTOR <sup>1</sup>	1.303

<sup>1</sup> BASED ON IN-SERVICE YEAR.

<sup>2</sup> REPRESENTS TOTAL GANNON OR BAYSIDE SITE.

**SCHEDULE 9**

**TABLE IV-4  
(Page 5 of 8)**

**STATUS REPORT AND SPECIFICATIONS OF PROPOSED GENERATING FACILITIES  
UTILITY: TAMPA ELECTRIC COMPANY**

(1)	PLANT NAME AND UNIT NUMBER	POLK UNIT 4
(2)	CAPACITY	
	A. SUMMER	155
	B. WINTER	180
(3)	TECHNOLOGY TYPE	COMBUSTION TURBINE
(4)	ANTICIPATED CONSTRUCTION TIMING	
	A. FIELD CONSTRUCTION START DATE	JAN 2003
	B. COMMERCIAL IN-SERVICE DATE	JAN 2005
(5)	FUEL	
	A. PRIMARY FUEL	NATURAL GAS
	B. ALTERNATE FUEL	DISTILLATE OIL
(6)	AIR POLLUTION CONTROL STRATEGY	UNDETERMINED
(7)	COOLING METHOD	UNDETERMINED
(8)	TOTAL SITE AREA <sup>2</sup>	APPROXIMATELY 4,347 ACRES
(9)	CONSTRUCTION STATUS	PROPOSED
(10)	CERTIFICATION STATUS	CERTIFIED
(11)	STATUS WITH FEDERAL AGENCIES	N/A
(12)	PROJECTED UNIT PERFORMANCE DATA	
	PLANNED OUTAGE FACTOR (POF)	1.9
	FORCED OUTAGE RATE (FOR)	3.4
	EQUIVALENT AVAILABILITY FACTOR (EAF)	94
	RESULTING CAPACITY FACTOR (2005)	7%
	AVERAGE NET OPERATING HEAT RATE (ANOHR) <sup>1</sup>	10,580 Btu/kWh
(13)	PROJECTED UNIT FINANCIAL DATA	
	BOOK LIFE (YEARS)	30
	TOTAL INSTALLED COST (IN-SERVICE YEAR \$/kW)	348.26
	DIRECT CONSTRUCTION COST (\$/kW)	292.59
	AFUDC AMOUNT (\$/kW)	26.46
	ESCALATION (\$/kW)	29.21
	FIXED O&M (2001 \$/kW-YR)	2.34
	VARIABLE O&M (2001 \$/MWh)	3.20
	K-FACTOR <sup>1</sup>	1.120

<sup>1</sup> BASED ON IN-SERVICE YEAR.

<sup>2</sup> REPRESENTS TOTAL POLK SITE.

**SCHEDULE 9**

**TABLE IV-4  
(Page 6 of 8)**

**STATUS REPORT AND SPECIFICATIONS OF PROPOSED GENERATING FACILITIES  
UTILITY: TAMPA ELECTRIC COMPANY**

(1)	PLANT NAME AND UNIT NUMBER	POLK UNIT 5
(2)	CAPACITY	
	A. SUMMER	155
	B. WINTER	180
(3)	TECHNOLOGY TYPE	COMBUSTION TURBINE
(4)	ANTICIPATED CONSTRUCTION TIMING	
	A. FIELD CONSTRUCTION START-DATE	JAN 2004
	B. COMMERCIAL IN-SERVICE DATE	JAN 2006
(5)	FUEL	
	A. PRIMARY FUEL	NATURAL GAS
	B. ALTERNATE FUEL	DISTILLATE OIL
(6)	AIR POLLUTION CONTROL STRATEGY	UNDETERMINED
(7)	COOLING METHOD	UNDETERMINED
(8)	TOTAL SITE AREA <sup>2</sup>	APPROXIMATELY 4,347 ACRES
(9)	CONSTRUCTION STATUS	PROPOSED
(10)	CERTIFICATION STATUS	CERTIFIED
(11)	STATUS WITH FEDERAL AGENCIES	N/A
(12)	PROJECTED UNIT PERFORMANCE DATA	
	PLANNED OUTAGE FACTOR (POF)	1.9
	FORCED OUTAGE RATE (FOR)	3.4
	EQUIVALENT AVAILABILITY FACTOR (EAF)	94
	RESULTING CAPACITY FACTOR (2006)	6%
	AVERAGE NET OPERATING HEAT RATE (ANOHR) <sup>1</sup>	10,580 Btu/kWh
(13)	PROJECTED UNIT FINANCIAL DATA	
	BOOK LIFE (YEARS)	30
	TOTAL INSTALLED COST (IN-SERVICE YEAR \$/kW)	355.92
	DIRECT CONSTRUCTION COST (\$/kW)	292.59
	AFUDC AMOUNT (\$/kW)	27.04
	ESCALATION (\$/kW)	36.29
	FIXED O&M (2001 \$/kW-YR)	2.39
	VARIABLE O&M (2001 \$/MWh)	3.28
	K-FACTOR <sup>1</sup>	1.028

<sup>1</sup> BASED ON IN-SERVICE YEAR.

<sup>2</sup> REPRESENTS TOTAL POLK SITE.

**SCHEDULE 9**

**TABLE IV-4  
(Page 7 of 8)**

**STATUS REPORT AND SPECIFICATIONS OF PROPOSED GENERATING FACILITIES  
UTILITY: TAMPA ELECTRIC COMPANY**

(1)	PLANT NAME AND UNIT NUMBER	POLK UNIT 6
(2)	CAPACITY	
	A. SUMMER	155
	B. WINTER	180
(3)	TECHNOLOGY TYPE	COMBUSTION TURBINE
(4)	ANTICIPATED CONSTRUCTION TIMING	
	A. FIELD CONSTRUCTION START DATE	JAN 2006
	B. COMMERCIAL IN-SERVICE DATE	JAN 2008
(5)	FUEL	
	A. PRIMARY FUEL	NATURAL GAS
	B. ALTERNATE FUEL	DISTILLATE OIL
(6)	AIR POLLUTION CONTROL STRATEGY	UNDETERMINED
(7)	COOLING METHOD	UNDETERMINED
(8)	TOTAL SITE AREA <sup>2</sup>	APPROXIMATELY 4,347 ACRES
(9)	CONSTRUCTION STATUS	PROPOSED
(10)	CERTIFICATION STATUS	CERTIFIED
(11)	STATUS WITH FEDERAL AGENCIES	N/A
(12)	PROJECTED UNIT PERFORMANCE DATA	
	PLANNED OUTAGE FACTOR (POF)	1.9
	FORCED OUTAGE RATE (FOR)	3.4
	EQUIVALENT AVAILABILITY FACTOR (EAF)	94
	RESULTING CAPACITY FACTOR (2008)	6%
	AVERAGE NET OPERATING HEAT RATE (ANOHR) <sup>1</sup>	10,580 Btu/kWh
(13)	PROJECTED UNIT FINANCIAL DATA	
	BOOK LIFE (YEARS)	30
	TOTAL INSTALLED COST (IN-SERVICE YEAR \$/kW)	371.76
	DIRECT CONSTRUCTION COST (\$/kW)	292.59
	AFUDC AMOUNT (\$/kW)	28.24
	ESCALATION (\$/kW)	50.92
	FIXED O&M (2001 \$/kW-YR)	2.50
	VARIABLE O&M (2001 \$/MWh)	3.43
	K-FACTOR <sup>1</sup>	0.866

<sup>1</sup> BASED ON IN-SERVICE YEAR.

<sup>2</sup> REPRESENTS TOTAL POLK SITE.

**SCHEDULE 9**

**TABLE IV-4  
(Page 8 of 8)**

**STATUS REPORT AND SPECIFICATIONS OF PROPOSED GENERATING FACILITIES  
UTILITY: TAMPA ELECTRIC COMPANY**

(1)	PLANT NAME AND UNIT NUMBER	FUTURE SITE UNIT 1
(2)	CAPACITY	
	A. SUMMER	155
	B. WINTER	180
(3)	TECHNOLOGY TYPE	COMBUSTION TURBINE
(4)	ANTICIPATED CONSTRUCTION TIMING	
	A. FIELD CONSTRUCTION START DATE	JAN 2007
	B. COMMERCIAL IN-SERVICE DATE	JAN 2009
(5)	FUEL	
	A. PRIMARY FUEL	NATURAL GAS
	B. ALTERNATE FUEL	DISTILLATE OIL
(6)	AIR POLLUTION CONTROL STRATEGY	UNDETERMINED
(7)	COOLING METHOD	UNDETERMINED
(8)	TOTAL SITE AREA	UNDETERMINED
(9)	CONSTRUCTION STATUS	PROPOSED
(10)	CERTIFICATION STATUS	N/A
(11)	STATUS WITH FEDERAL AGENCIES	N/A
(12)	PROJECTED UNIT PERFORMANCE DATA	
	PLANNED OUTAGE FACTOR (POF)	1.9
	FORCED OUTAGE RATE (FOR)	3.4
	EQUIVALENT AVAILABILITY FACTOR (EAF)	94
	RESULTING CAPACITY FACTOR (2009)	7%
	AVERAGE NET OPERATING HEAT RATE (ANOHR) <sup>1</sup>	10,580 Btu/kWh
(13)	PROJECTED UNIT FINANCIAL DATA	
	BOOK LIFE (YEARS)	30
	TOTAL INSTALLED COST (IN-SERVICE YEAR \$/kW)	488.14
	DIRECT CONSTRUCTION COST (\$/kW)	375.93
	AFUDC AMOUNT (\$/kW)	37.08
	ESCALATION (\$/kW)	75.13
	FIXED O&M (2001 \$/kW-YR)	2.56
	VARIABLE O&M (2001 \$/MWh)	3.51
	K-FACTOR <sup>1</sup>	0.796

1 BASED ON IN-SERVICE YEAR.

2 INCLUDES \$15 MILLION ESTIMATE FOR NEW SITE