



**Department of
Environmental Protection
Division of Air Resource
Management
APPLICANT DATA DETAIL REPORT
Long Form**

0010001-007

Application submitted on: 7/2/2004

PROGRESS ENERGY UF COGEN PERMIT RENEWAL (APP #: 414-1)
PROGRESS ENERGY FLORIDA, INC. (FACILITY ID: 0010001)

I. APPLICATION SECTION

APPLICATION IDENTIFICATION INFORMATION

Application Number: 414
Applicant's Version: 1
Application Name: PROGRESS ENERGY UF COGEN PERMIT RENEWAL
Application Type: LONG FORM
Purpose of Application: TITLE V AIR OPERATION PERMIT RENEWAL.
Application Comment: THIS APPLICATION IS FOR A TV RENEWAL.

Are you requesting a multi-unit or facility-wide emissions cap for one or more pollutants? YES

SCOPE OF APPLICATION

EU ID	Description	Permit Type	Processing Fee
002	NO.4 STEAM BOILER	AV05	\$0.00
003	NO.5 STEAM BOILER	AV05	\$0.00
005	DUCT BURNER SYSTEM ASSOCIATED WITH HRSG	AV05	\$0.00
007	NEW LM6000PC-ESPRINT COMBUSTION TURBINE	AV05	\$0.00
Total Processing Fee:			\$0.00

APPLICATION CONTACT INFORMATION

First Name: MATTHEW
Last Name: LYDON
Job Title: ENVIRONMENTAL SPECIALIST
Name of Organization/Firm: PROGRESS ENERGY FLORIDA
Street Address: ONE POWER PLAZA
City: ST. PETERSBURG
State: FL
Zip: 33701 - 5511
Telephone: 727 - 826 - ~~4187~~ 4187
Fax: 727 - 826 - 4216
E-mail: ~~MATTHEW.LYDON@POMMAIL.COM~~ Dave Meyer dave.meyer@pgnmail.com

PROFESSIONAL ENGINEER INFORMATION

First Name: SCOTT
Last Name: OSBOURN
Job Title: SENIOR CONSULTANT
Name of Organization/Firm: GOLDER ASSOCIATES
Registration Number: 57557
Street Address: 5100 WEST LEMON ST.
City: TAMPA
State: FL
Zip: 33609
Telephone: 813 - 287 - 1717
Fax: 813 - 287 - 1716
E-mail: SOSBOURN@GOLDER.COM

OWNER/AUTHORIZED REPRESENTATIVE INFORMATION

First Name: WILSON
Last Name: HICKS
Job Title: PLANT MANAGER
Name of Organization/Firm: PROGRESS ENERGY FLORIDA, INC
Street Address: UNIVERSITY OF FLORIDA COGENERATION PLANT
City: GAINESVILLE
State: FL
Zip: 32611 - 2295
Telephone: 352 - 337 - 6904
Fax:
E-mail: WILSON.HICKS@PGNMAIL.COM

RESPONSIBLE OFFICIAL INFORMATION

First Name: WILSON
Last Name: HICKS
Primary RO? YES
Job Title: PLANT MANAGER
Name of Organization/Firm: PROGRESS ENERGY FLORIDA, INC
Street Address: UNIVERSITY OF FLORIDA COGENERATION PLANT
City: GAINESVILLE
State: FL
Zip: 32611 - 2295
Telephone: 352 - 337 - 6904
Fax:
E-mail: WILSON.HICKS@PGNMAIL.COM

- RO Qualification

**PROGRESS ENERGY UF COGEN PERMIT RENEWAL (APP #: 414-1)
PROGRESS ENERGY FLORIDA, INC. (FACILITY ID: 0010001)**

II. FACILITY SECTION

FACILITY IDENTIFICATION INFORMATION

Owner/Company Name: PROGRESS ENERGY FLORIDA, INC.
Site Name: U OF FL COGEN
Facility Office: NED - NE: JACKSONVILLE
Description of Location: MOWERY RD AT U OF FL
Street Address: MOWERY RD AT U OF FL
City: GAINESVILLE
County: ALACHUA
ZIP: 32611
Relocatable: NO
Facility Status: A - ACTIVE
Comment: TITLE V (MAJOR).

FACILITY LOCATION AND TYPE

Facility UTM Coordinates: Zone: 17 East(km): 369.39 North(km): 3279.29
Facility Latitude: Degrees: 29 Minutes: 38 Seconds: 18
Facility Longitude: Degrees: 82 Minutes: 21 Seconds: 46
Facility Type: 1 - STEAM ELECTRIC PLANT
Facility SIC Codes: **Primary:** 4911 - ELECTRIC, GAS AND SANITARY SERVICES
ELECTRIC SERVICES
ELECTRIC SERVICES
Governmental Facility Code: 0 - NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Facility Major Group SIC: 49 - ELECTRIC, GAS AND SANITARY SERVICES

FACILITY CONTACT INFORMATION

First Name: WILSON
Last Name: HICKS
Job Title: PLANT MANAGER
Name of Organization/Firm: FPC D/B/A PROGRESS ENERGY FLORIDA, INC.
Street Address: MOWRY ROAD, BUILDING 82
City: GAINESVILLE
State: FL
Zip: 32611
Telephone: 352 - 337 - 6904
Fax: 352 - 337 - 6920
E-mail:

FACILITY REGULATORY CLASSIFICATIONS

Small Business Stationary Source?
Title V? Yes
Major Source of Pollutants Other than HAPs? Yes
Major Source of HAPs? No
TITLE V Source by EPA Designation?
Synthetic Non-Title V Source?
Synthetic Minor Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?
Synthetic Minor Source of HAPs?
One or More EUs Subject to NSPS? Yes
AOR Required? Yes
Ozone SIP Facility? No
One or More EUs Subject to NESHAP?
Regulatory Classifications Comment:

FACILITY POLLUTANT INFORMATION

Code	Description	Class.	Comment
CO	Carbon Monoxide	A	
H095	Formaldehyde	C	
H104	Hexane	C	
HAPS	Total Hazardous Air Pollutants	C	
NOX	Nitrogen Oxides	A	If facility-wide cap is exceeded by 0.3 TPY then PSD applicability is retro-active
PB	Lead - Total (elemental lead and lead compounds)	B	
PM	Particulate Matter - Total	A	
PM10	Particulate Matter - PM10	A	
SO2	Sulfur Dioxide	A	
VOC	Volatile Organic Compounds	A	

FACILITY POLLUTANT CAP INFORMATION

Code	Regulation	Requested Emissions Cap (lb/hour)	Requested Emissions Cap (tons/year)	Basis for Emissions Cap	Include All EUs in Cap?	Included EUs
NOX			194.3	ESCPDS	NO	002, 003, 005

FACILITY ADDITIONAL INFORMATION

Supplementary Item	Applicable?	Attachment?
ADDITIONAL IMPACT ANALYSES (RULES 62-212.400(5)(e)1. and 62-212.500(4)(e),F.A.C.)	No	No
AIR QUALITY IMPACT SINCE 1977 (RULE 62-212.400(5)(h)5.,F.A.C.)	No	No
ALTERNATIVE ANALYSIS REQUIREMENTS (RULE 62-212.500(4)(g),F.A.C.)	No	No
AMBIENT IMPACT ANALYSIS (RULE 62-212.400(5)(D),F.A.C.)	No	No
AREA MAP SHOWING FACILITY LOCATION	Yes	Yes
COMPLIANCE REPORT AND PLAN	Yes	Yes
DESCRIPTION OF PROPOSED CONSTRUCTION OR MODIFICATION	No	No
FACILITY PLOT PLAN	Yes	Yes
Previously submitted? NO Submittal Date:		
FUGITIVE EMISSIONS IDENTIFICATION (RULE 62-212.400(2),F.A.C.)	Yes	Yes
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	Yes
LIST OF EQUIPMENT/ACTIVITIES REGULATED UNDER TITLE VI	No	No
Equipment/Activities On Site but Not Required to be Individually Listed? NO		
LIST OF EXEMPT EMISSIONS UNITS (RULE 62-210.300(3)(a) or (b)1.,F.A.C.)	No	No
LIST OF EXEMPT EMISSIONS UNITS (RULE 62-210.300(3)(a) or (b)1.,F.A.C.)	No	No
LIST OF INSIGNIFICANT ACTIVITIES	No	No
OTHER FACILITY INFORMATION	Yes	Yes
PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER	No	Yes
Previously submitted? NO Submittal Date:		
PRECONSTRUCTION AIR QUALITY MONITORING AND ANALYSIS (RULE 62-212.400(5)(f),F.A.C.)	No	No
PROCESS FLOW DIAGRAM(s)	No	Yes
Previously submitted? NO Submittal Date:		
REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT	Yes	Yes
RULE APPLICABILITY ANALYSIS	No	No
VERIFICATION OF RISK MANAGEMENT PLAN SUBMISSION TO EPA	No	No

Supplementary Items Comment: APPLIC CONTACT COMMENT UF-AI-AC; ALT METHODS OF OPERATION UF-FE-9

FACILITY ATTACHMENTS

Supplementary Item	Electronic?	Attachment Description	Electronic File Name	Uploaded?
AREA MAP SHOWING FACILITY LOCATION	Yes	UF-FE-1	Y:\Projects\2004\0439525 FPL TV Renew-3\UF\Area Map.pdf	Yes
COMPLIANCE REPORT AND PLAN	Yes	RPT & PLAN UF-FE-14	Y:\Projects\2004\0439525 FPL TV Renew-3\UF\UFFE14.xls	Yes
FACILITY PLOT PLAN	Yes	AREA MAP UF-FE-1	Y:\Projects\2004\0439525 FPL TV Renew-3\UF\Plot Plan.pdf	Yes
FUGITIVE EMISSIONS IDENTIFICATION (RULE 62-212.400(2),F.A.C.)	Yes	UF-FE-5	Y:\Projects\2004\0439525 FPL TV Renew-3\UF\FE-5.doc	Yes
IDENTIFICATION OF APPLICABLE			Y:\Projects\2004\0439525 FPL TV Renew-3	

REQUIREMENTS	Yes	UF-FE-B	\UF\UFFEB.doc	Yes
OTHER FACILITY INFORMATION	Yes	COMMENT UF-FE-AC	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\UFAIAC.doc	Yes
OTHER FACILITY INFORMATION	Yes	ALT METHODS OF OPERATION UF-FE-9	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\FE-9.doc	Yes
PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER	Yes	UF-FE-4	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\FE-4.doc	Yes
PROCESS FLOW DIAGRAM(s)	Yes	UF-FE-3	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\Fac Flow Diag.pdf	Yes
REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT	Yes	TV REVISIONS	H:\PROJECTS\2004proj\043-9525 PGN Title V Support\Draft Reports\UF Cogen\TV Revisions.pdf	Yes

**PROGRESS ENERGY UF COGEN PERMIT RENEWAL (APP #: 414-1)
PROGRESS ENERGY FLORIDA, INC. (FACILITY ID: 0010001)**

III. EMISSIONS UNIT SECTION

EU 002: DESCRIPTION AND DETAIL INFORMATION

Type of EU: THIS EU INFORMATION SECTION ADDRESSES, AS A SINGLE EMISSIONS UNIT, A SINGLE PROCESS OR PRODUCTION UNIT, OR ACTIVITY, WHICH PRODUCES ONE OR MORE AIR POLLUTANTS AND WHICH HAS AT LEAST ONE DEFINABLE EMISSION POINT (STACK OR VENT).

EU Description: NO.4 STEAM BOILER

EU Status: A - ACTIVE

EU Classification: R - REGULATED EMISSIONS UNIT

Acid Rain Unit? No

CEMS Required? No

Ozone SIP Base Year Unit? No

Initial Startup Date: 1/1/1976

Long-term Reserve Shutdown Date:

Commence Construction Date:

EU Major Group SIC: 49 - ELECTRIC, GAS AND SANITARY SERVICES

EU Type:

Package Unit Manufacturer:

Generator Nameplate Rating:

Incinerator Dwell Temp:

Incinerator Dwell Time:

Incinerator Afterburner Temp:

EU Comment:

EU 002: CONTROL EQUIPMENT/METHOD INFORMATION

*** NO CONTROL EQUIPMENT/METHOD(S) FOUND FOR THIS EU ***

EU 002: OPERATING CAPACITY AND SCHEDULE

Maximum Heat Input Rate: 69.6 mmBtu/hr

Maximum Incineration Rate:

Maximum Process or Throughput Rate:

Maximum Process or Throughput Rate Units:

Maximum Production Rate:

Maximum Process or Throughput Rate Units:

Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8760 hours/year

Operating Capacity and Schedule Comment: MAX HEAT INPUT RATE = 69.6 (ROUNDED TO 70). MAX HEAT INPUT BASED ON PERMIT LIMIT OF 68,000 CF OF GAS/HOUR (1024 BTU/CF-HHV). MAX FUEL INPUT FOR OIL IS 444 GAL/HOUR (20,140 BTU/LB-HHV; 7.2 LB/GAL).

EU 002: POINT (STACK/VENT) INFORMATION

Stack Number: 2

Identification of Point on Plot Plan or Flow Diagram?

Emission Point Type Code: 1 - A SINGLE EMISSION POINT SERVING A SINGLE EMISSIONS UNIT

Discharge Type Code:

Stack Height: 82 feet

Exit Diameter: 5 feet

Exit Temperature: 350 Fahrenheit

Actual Volumetric Flow Rate: 13500 acfm

Water Vapor:

Maximum Dry Standard Flow Rate:

Nonstack Emission Point Height:
Emission Point UTM Coordinates:
Emission Point Latitude:
Emission Point Longitude:
Emission Point Comment: Based on fuel oil firing.

EU 002: SEGMENT (PROCESS/FUEL) INFORMATION

SCC Code: 10300501

Units: 1000 Gallons Distillate Oil (No. 1 & 2) Burned

Description 1: External Combustion Boilers

Description 2: Commercial/Institutional

Description 3: Distillate Oil

Description 4: Grades 1 and 2 Oil

Is this a Valid Segment? YES

Status: INACTIVE

Segment Description (Process/Fuel Type): NO. 2 FUEL OIL

Maximum Hourly Rate:

Hourly Rate Limit:

Maximum Annual Rate:

Annual Rate Limit:

Estimated Annual Activity Factor:

Maximum % Sulfur: 0.5

% Sulfur Rate Limit:

Maximum % Ash:

Million Btu per SCC Unit: 145

Segment Comment: ALSO SEE AC01-204652

SCC Code: 10300602

Units: Million Cubic Feet Natural Gas Burned

Description 1: External Combustion Boilers

Description 2: Commercial/Institutional

Description 3: Natural Gas

Description 4: 10-100 Million Btu/hr

Is this a Valid Segment? YES

Status: INACTIVE

Segment Description (Process/Fuel Type): NATURAL GAS FIRING

Maximum Hourly Rate: 0.068

Hourly Rate Limit:

Maximum Annual Rate:

Annual Rate Limit:

Estimated Annual Activity Factor:

Maximum % Sulfur:

% Sulfur Rate Limit:

Maximum % Ash:

Million Btu per SCC Unit: 1024

Segment Comment: FACILITY-WIDE ANNUAL NOX EMISSION LIMIT 194.3 TPY.

EU 002: POLLUTANT POTENTIAL/ESTIMATED EMISSIONS INFORMATION

Pollutant Code: CO

Pollutant Description: CARBON MONOXIDE

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions:
Synthetically Limited?:
Emissions Method:
Emission Factor:
Emission Factor Units:
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

Pollutant Code: HAPS

Pollutant Description: TOTAL HAZARDOUS AIR POLLUTANTS
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO
Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions:
Synthetically Limited?: NO
Emissions Method:
Emission Factor:
Emission Factor Units: PPMVD @ 8% O2
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

Pollutant Code: NOX

Pollutant Description: NITROGEN OXIDES
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? YES
Pollutant Regulatory Code: EL - EMISSION-LIMITED POLLUTANT
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions:
Synthetically Limited?:
Emissions Method:
Emission Factor:
Emission Factor Units:
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment: Included with EUs -003, -005 and -007 in a facility-wide cap of 194.3 TPY.

Pollutant Code: PB

Pollutant Description: LEAD - TOTAL (ELEMENTAL LEAD AND LEAD COMPOUNDS)
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions:
Synthetically Limited?: NO
Emissions Method:
Emission Factor:
Emission Factor Units: PPMVD @ 8% O2
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

Pollutant Code: PM

Pollutant Description: PARTICULATE MATTER - TOTAL
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions:
Synthetically Limited?: NO
Emissions Method:
Emission Factor:
Emission Factor Units: PPMVD @ 8% O2
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment: PARTICULATE MATTER EMISSIONS SHALL BE CONTROLLED BY FIRING NATURAL GAS AND/OR LOW SULFUR CONTENT NO. 2 FUEL OIL.

Pollutant Code: PM10

Pollutant Description: PARTICULATE MATTER - PM10
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions:
Synthetically Limited?: NO
Emissions Method:
Emission Factor:
Emission Factor Units: PPMVD @ 8% O2
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

Pollutant Code: SO2

Pollutant Description: SULFUR DIOXIDE
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO
Pollutant Regulatory Code: EL - EMISSION-LIMITED POLLUTANT
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions: 32 lb/hour 140 tons/year
Synthetically Limited?: NO
Emissions Method: EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.
Emission Factor: 0.5
Emission Factor Units: OTHER (SPECIFY IN COMMENT)
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment: Potential emissions based on fuel oil-firing.

Pollutant Code: VOC
Pollutant Description: VOLATILE ORGANIC COMPOUNDS
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO
Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions:
Synthetically Limited?: NO
Emissions Method:
Emission Factor:
Emission Factor Units: PPMVD @ 8% O2
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

EU 002: POLLUTANT ALLOWABLE EMISSIONS INFORMATION

Pollutant Code: SO2
Pollutant Description: SULFUR DIOXIDE
Basis for Allowable Emissions Code: RULE - EMISSIONS CAP REQUIRED BY RULE
Regulation: 62-296.406
Future Effective Date of Allowable Emissions:
Allowable Emissions: 0.5
Allowable Emissions Unit: PERCENT SULFUR IN FUEL
Equivalent Allowable Emissions: 32 lb/hour 140 tons/year
Method of Compliance: FUEL SAMPLING PER DELIVERY
Compliance Method Code: 4 - FUEL SAMPLING
Compliance Test Frequency: 0 - NONE REQUIRED
Frequency Base Date:
Comment/Description of Operating

Method: WHILE FIRING NATURAL GAS AND FUEL OIL.

EU 002: VISIBLE EMISSIONS INFORMATION

Visible Emissions Subtype: VE10

Basis for Allowable Opacity: OTHER

Regulation:

Requested Allowable Opacity in Normal Conditions: 10

Requested Allowable Opacity in Exceptional Conditions:

Maximum Period of Excess Opacity

Allowed:

Compliance Test Method(s):

Compliance Test Frequency: 0 - NONE REQUIRED

Frequency Base Date:

COM Required?

Visible Emissions Comment: While burning natural gas.

Visible Emissions Subtype: VE20

Basis for Allowable Opacity: RULE

Regulation: 62-296.406(1)

Requested Allowable Opacity in Normal Conditions: 20

Requested Allowable Opacity in Exceptional Conditions: 27

Maximum Period of Excess Opacity

Allowed: 6

Compliance Test Method(s):

Compliance Test Frequency: 0 - NONE REQUIRED

Frequency Base Date:

COM Required?

Visible Emissions Comment: While burning fuel oil. Test required if oil use is more than 400 hours.

Visible Emissions Subtype: VE60

Basis for Allowable Opacity: OTHER

Regulation:

Requested Allowable Opacity in Normal Conditions: 60

Requested Allowable Opacity in Exceptional Conditions:

Maximum Period of Excess Opacity

Allowed:

Compliance Test Method(s):

Compliance Test Frequency: 11 - EACH FFY (1 OCT - 30 SEP)

Frequency Base Date: 9/30/1976

COM Required?

Visible Emissions Comment: During the 3hrs in any 24hrs allowed for boiler cleaning(sooth blowing) and load change.

EU 002: CONTINUOUS MONITOR INFORMATION

*** NO CONTINUOUS MONITOR INFORMATION FOUND FOR THIS EU ***

EU 002: ADDITIONAL ITEMS

Supplementary Item	Applicable?	Attachment?
ACID RAIN PART (FORM NO. 62-210.900(1)(a))	No	No
Previously submitted? NO Submittal Date:	Yes	Yes
ALTERNATIVE METHODS OF OPERATION	Yes	Yes

ALTERNATIVE MODES OF OPERATION (EMISSIONS TRADING)	No	No
CERTIFICATE OF REPRESENTATION (EPA FORM NO. 7610-1)	No	No
COMPLIANCE ASSURANCE MONITORING PLAN	No	No
COMPLIANCE DEMONSTRATION REPORTS/RECORDS	No	No
Previously submitted? NO Submittal Date: Previously Submitted Test Date(s)/Pollutants Tested: To Be submitted? NO Submittal Date: To Be Submitted Test Date(s)/Pollutants Tested:	No	No
CONTROL TECHNOLOGY REVIEW AND ANALYSIS (RULES 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))	No	No
DESCRIPTION OF STACK SAMPLING FACILITIES	Yes	Yes
DETAILED DESCRIPTION OF CONTROL EQUIPMENT	No	No
Previously submitted? NO Submittal Date:	No	No
FUEL ANALYSIS OR SPECIFICATION	Yes	Yes
Previously submitted? NO Submittal Date:	Yes	Yes
GOOD ENGINEERING PRACTICE STACK HEIGHT ANALYSIS (RULE 62-212.400(5)(h)6., F.A.C., and RULE 62-212.500(4)(f), F.A.C.)	No	No
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	Yes
NEW UNIT EXEMPTION (FORM NO. 62-210.900(1)(a)2.)	No	No
Previously submitted? NO Submittal Date:	No	No
OPERATION AND MAINTENANCE PLAN	No	No
Previously submitted? NO Submittal Date:	No	No
OTHER EMISSIONS UNIT INFORMATION	No	No
OTHER INFORMATION REQUIRED BY RULE OR STATUTE	No	No
PHASE II NO _x AVERAGING PLAN (FORM NO. 62-210.900(1)(a)5.)	No	No
Previously submitted? NO Submittal Date:	No	No
PHASE II NO _x COMPLIANCE PLAN (FORM NO. 62-210.900(1)(a)4.)	No	No
Previously submitted? NO Submittal Date:	No	No
PROCEDURES FOR STARTUP AND SHUTDOWN	No	No
Previously submitted? NO Submittal Date:	No	No
PROCESS FLOW DIAGRAM	Yes	Yes
Previously submitted? NO Submittal Date:	Yes	Yes
REPOWERING EXTENSION PLAN (FORM NO. 62-210.900(1)(a)1.)	No	No
Previously submitted? NO Submittal Date:	No	No
RETIRED UNIT EXEMPTION (FORM NO. 62-210.900(1)(a)3.)	No	No
Previously submitted? NO Submittal Date:	No	No

EU 002: ATTACHMENTS

Supplementary Item	Electronic?	Attachment Description	Electronic File Name	Uploaded?
ALTERNATIVE METHODS OF OPERATION	Yes	EU3-L10	Y:\Projects\2004\0439525 FPL TV Renews-3 \UF\E3-L10.doc	Yes
DESCRIPTION OF STACK SAMPLING FACILITIES	Yes	EU3-L6	Y:\Projects\2004\0439525 FPL TV Renews-3 \UF\E3-L6.doc	Yes
FUEL ANALYSIS OR SPECIFICATION	Yes	EU3-L2	Y:\Projects\2004\0439525 FPL TV Renews-3 \UF\E3-L2.doc	Yes
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	EU3-D	Y:\Projects\2004\0439525 FPL TV Renews-3 \UF\EU3-D.doc	Yes
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	APPLICABLE PERMITS	Y:\Projects\2004\0439525 FPL TV Renews-3 \UFApp Permits - eu3.pdf	Yes
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	ADD'L APP REQ	Y:\Projects\2004\0439525 FPL TV Renews-3 \UF\CP-B.doc	Yes
PROCESS FLOW DIAGRAM	Yes	EU3 FLOW	Y:\Projects\2004\0439525 FPL TV Renews-3 \UF\EU3 FLOW.pdf	Yes

EU 003: DESCRIPTION AND DETAIL INFORMATION

Type of EU: THIS EU INFORMATION SECTION ADDRESSES, AS A SINGLE EMISSIONS UNIT, A SINGLE PROCESS OR PRODUCTION UNIT, OR ACTIVITY, WHICH PRODUCES ONE OR MORE AIR POLLUTANTS AND WHICH HAS AT LEAST ONE DEFINABLE EMISSION POINT (STACK OR VENT).

EU Description: NO.5 STEAM BOILER

EU Status: A - ACTIVE

EU Classification: R - REGULATED EMISSIONS UNIT

Acid Rain Unit? No

CEMS Required? No

Ozone SIP Base Year Unit? No

Initial Startup Date: 1/1/1976

Long-term Reserve Shutdown Date:

Commence Construction Date:

EU Major Group SIC: 49 - ELECTRIC, GAS AND SANITARY SERVICES

EU Type:

Package Unit Manufacturer:

Generator Nameplate Rating:

Incinerator Dwell Temp:

Incinerator Dwell Time:

Incinerator Afterburner Temp:

EU Comment:

EU 003: CONTROL EQUIPMENT/METHOD INFORMATION

*** NO CONTROL EQUIPMENT/METHOD(S) FOUND FOR THIS EU ***

EU 003: OPERATING CAPACITY AND SCHEDULE

Maximum Heat Input Rate: 168 mmBtu/hr

Maximum Incineration Rate:

Maximum Process or Throughput Rate:

Maximum Process or Throughput Rate Units:

Maximum Production Rate:

Maximum Process or Throughput Rate Units:

Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8760 hours/year

Operating Capacity and Schedule Comment: MAX HEAT INPUT RATE = 168MMBTU/HR. MAX HEAT INPUT BASED ON PERMIT LIMIT OF 164,000 CF OF GAS/HOUR AND 444 GAL/HOUR FOR OIL.

EU 003: POINT (STACK/VENT) INFORMATION

Stack Number: 3

Identification of Point on Plot Plan or Flow Diagram?

Emission Point Type Code: 1 - A SINGLE EMISSION POINT SERVING A SINGLE EMISSIONS UNIT

Discharge Type Code:

Stack Height: 82 feet

Exit Diameter: 6 feet

Exit Temperature: 400 Fahrenheit

Actual Volumetric Flow Rate: 56250 acfm

Water Vapor:

Maximum Dry Standard Flow Rate:

Nonstack Emission Point Height:

Emission Point UTM Coordinates:

Emission Point Latitude:

Emission Point Longitude:

Emission Point Comment: Based on fuel oil firing.

EU 003: SEGMENT (PROCESS/FUEL) INFORMATION**SCC Code: 10300501**

Units: 1000 Gallons Distillate Oil (No. 1 & 2) Burned

Description 1: External Combustion Boilers

Description 2: Commercial/Institutional

Description 3: Distillate Oil

Description 4: Grades 1 and 2 Oil

Is this a Valid Segment? YES

Status: INACTIVE

Segment Description (Process/Fuel Type): NO. 2 FUEL OIL

Maximum Hourly Rate: 1.067

Hourly Rate Limit:

Maximum Annual Rate:

Annual Rate Limit:

Estimated Annual Activity Factor:

Maximum % Sulfur: 0.5

% Sulfur Rate Limit:

Maximum % Ash: 0.1

Million Btu per SCC Unit: 145

Segment Comment: FACILITY-WIDE ANNUAL NOX EMISSION LIMIT 194.3 TPY.

SCC Code: 10300601

Units: Million Cubic Feet Natural Gas Burned

Description 1: External Combustion Boilers

Description 2: Commercial/Institutional

Description 3: Natural Gas

Description 4: > 100 Million Btu/hr

Is this a Valid Segment? YES

Status: INACTIVE

Segment Description (Process/Fuel Type): NATURAL GAS

Maximum Hourly Rate: 0.164

Hourly Rate Limit:

Maximum Annual Rate:

Annual Rate Limit:

Estimated Annual Activity Factor:

Maximum % Sulfur:

% Sulfur Rate Limit:

Maximum % Ash:

Million Btu per SCC Unit: 1024

Segment Comment: FACILITY-WIDE ANNUAL NOX EMISSION LIMIT 194.3 TPY.

EU 003: POLLUTANT POTENTIAL/ESTIMATED EMISSIONS INFORMATION**Pollutant Code: CO**

Pollutant Description: CARBON MONOXIDE

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions:

Synthetically Limited?:

Emissions Method:

Emission Factor:

Emission Factor Units:

Emission Factor Reference:

Calculation of Emissions:
 Range of Estimated Fugitive
 Emissions (Lower Limit):
 Range of Estimated Fugitive
 Emissions (Upper Limit):
 Pollutant Comment:

Pollutant Code: HAPS

Pollutant Description: TOTAL HAZARDOUS AIR POLLUTANTS

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions
Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions:

Synthetically Limited?: NO

Emissions Method:

Emission Factor:

Emission Factor Units: PPMVD @ 8% O2

Emission Factor Reference:

Calculation of Emissions:

Range of Estimated Fugitive
Emissions (Lower Limit):Range of Estimated Fugitive
Emissions (Upper Limit):

Pollutant Comment:

Pollutant Code: NOX

Pollutant Description: NITROGEN OXIDES

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions
Cap? YES

Pollutant Regulatory Code: EL - EMISSION-LIMITED POLLUTANT

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions:

Synthetically Limited?:

Emissions Method:

Emission Factor:

Emission Factor Units:

Emission Factor Reference:

Calculation of Emissions:

Range of Estimated Fugitive
Emissions (Lower Limit):Range of Estimated Fugitive
Emissions (Upper Limit):

Pollutant Comment:

Included with EUs -002, -005 and -007 in a facility-wide cap of 194.3 TPY.

Pollutant Code: PB

Pollutant Description: LEAD - TOTAL (ELEMENTAL LEAD AND LEAD COMPOUNDS)

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions
Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions:

Synthetically Limited?: NO

Emissions Method:**Emission Factor:****Emission Factor Units:** PPMVD @ 8% O2**Emission Factor Reference:****Calculation of Emissions:****Range of Estimated Fugitive****Emissions (Lower Limit):****Range of Estimated Fugitive****Emissions (Upper Limit):****Pollutant Comment:****Pollutant Code: PM****Pollutant Description:** PARTICULATE MATTER - TOTAL**Is this a Valid Pollutant?** YES**Status:** ACTIVE**Include in the Facility Emissions****Cap?** NO**Pollutant Regulatory Code:** NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE**Primary Control Device:****Secondary Control Device:****Total % Efficiency of Control:****Potential Emissions:****Synthetically Limited?:** NO**Emissions Method:****Emission Factor:****Emission Factor Units:** PPMVD @ 8% O2**Emission Factor Reference:****Calculation of Emissions:****Range of Estimated Fugitive****Emissions (Lower Limit):****Range of Estimated Fugitive****Emissions (Upper Limit):****Pollutant Comment:** PARTICULATE MATTER EMISSIONS SHALL BE CONTROLLED BY FIRING NATURAL GAS AND/OR LOW SULFUR CONTENT NO. 2 FUEL OIL.**Pollutant Code: PM10****Pollutant Description:** PARTICULATE MATTER - PM10**Is this a Valid Pollutant?** YES**Status:** ACTIVE**Include in the Facility Emissions****Cap?** NO**Pollutant Regulatory Code:** NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE**Primary Control Device:****Secondary Control Device:****Total % Efficiency of Control:****Potential Emissions:****Synthetically Limited?:** NO**Emissions Method:****Emission Factor:****Emission Factor Units:** PPMVD @ 8% O2**Emission Factor Reference:****Calculation of Emissions:****Range of Estimated Fugitive****Emissions (Lower Limit):****Range of Estimated Fugitive****Emissions (Upper Limit):****Pollutant Comment:****Pollutant Code: SO2****Pollutant Description:** SULFUR DIOXIDE**Is this a Valid Pollutant?** YES**Status:** ACTIVE**Include in the Facility Emissions****Cap?** NO**Pollutant Regulatory Code:** EL - EMISSION-LIMITED POLLUTANT

Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions: 32 lb/hour 140 tons/year
Synthetically Limited?: NO
Emissions Method: EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.
Emission Factor: 0.5
Emission Factor Units: OTHER (SPECIFY IN COMMENT)
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment: Potential emissions based on fuel oil-firing.

Pollutant Code: VOC

Pollutant Description: VOLATILE ORGANIC COMPOUNDS
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO
Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions:
Synthetically Limited?: NO
Emissions Method:
Emission Factor:
Emission Factor Units: PPMVD @ 8% O2
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

EU 003: POLLUTANT ALLOWABLE EMISSIONS INFORMATION**Pollutant Code: SO2**

Pollutant Description: SULFUR DIOXIDE
Basis for Allowable Emissions Code: RULE - EMISSIONS CAP REQUIRED BY RULE
Regulation: 62-296.406
Future Effective Date of Allowable Emissions:
Allowable Emissions: 0.5
Allowable Emissions Unit: PERCENT SULFUR IN FUEL
Equivalent Allowable Emissions: 32 lb/hour 140 tons/year
Method of Compliance: FUEL SAMPLING PER DELIVERY
Compliance Method Code: 4 - FUEL SAMPLING
Compliance Test Frequency: 0 - NONE REQUIRED
Frequency Base Date:
Comment/Description of Operating Method: WHILE FIRING NATURAL GAS AND FUEL OIL.

EU 003: VISIBLE EMISSIONS INFORMATION

Visible Emissions Subtype: VE10

Basis for Allowable Opacity: OTHER

Regulation:

Requested Allowable Opacity in Normal Conditions: 10

Requested Allowable Opacity in Exceptional Conditions:

Maximum Period of Excess Opacity Allowed:

Compliance Test Method(s):

Compliance Test Frequency: 0 - NONE REQUIRED

Frequency Base Date:

COM Required?

Visible Emissions Comment: While burning natural gas.

Visible Emissions Subtype: VE20

Basis for Allowable Opacity: RULE

Regulation: 62-296.406(1)

Requested Allowable Opacity in Normal Conditions: 20

Requested Allowable Opacity in Exceptional Conditions: 27

Maximum Period of Excess Opacity Allowed: 6

Compliance Test Method(s):

Compliance Test Frequency: 0 - NONE REQUIRED

Frequency Base Date:

COM Required?

Visible Emissions Comment: While burning fuel oil. Test required if oil use is more than 400 hrs.

Visible Emissions Subtype: VE60

Basis for Allowable Opacity: OTHER

Regulation:

Requested Allowable Opacity in Normal Conditions: 60

Requested Allowable Opacity in Exceptional Conditions:

Maximum Period of Excess Opacity Allowed:

Compliance Test Method(s):

Compliance Test Frequency: 11 - EACH FFY (1 OCT - 30 SEP)

Frequency Base Date: 9/30/1976

COM Required?

Visible Emissions Comment: During the 3hrs in any 24hrs allowed for boiler cleaning(sooth blowing) and load change.

EU 003: CONTINUOUS MONITOR INFORMATION

*** NO CONTINUOUS MONITOR INFORMATION FOUND FOR THIS EU ***

EU 003: ADDITIONAL ITEMS

Supplementary Item	Applicable?	Attachment?
ACID RAIN PART (FORM NO. 62-210.900(1)(a))	No	No
Previously submitted? NO Submittal Date:		
ALTERNATIVE METHODS OF OPERATION	No	No
ALTERNATIVE MODES OF OPERATION (EMISSIONS TRADING)	No	No
CERTIFICATE OF REPRESENTATION (EPA FORM NO. 7610-1)	No	No
COMPLIANCE ASSURANCE MONITORING PLAN	No	No
COMPLIANCE DEMONSTRATION REPORTS/RECORDS	No	No
Previously submitted? NO Submittal Date: Previously Submitted Test Date(s)/Pollutants Tested:		
To Be submitted? NO Submittal Date: To Be Submitted Test Date(s)/Pollutants Tested:		

CONTROL TECHNOLOGY REVIEW AND ANALYSIS (RULES 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))	No	No
DESCRIPTION OF STACK SAMPLING FACILITIES	No	No
DETAILED DESCRIPTION OF CONTROL EQUIPMENT	No	No
Previously submitted? NO Submittal Date:	No	No
FUEL ANALYSIS OR SPECIFICATION	No	No
Previously submitted? NO Submittal Date:	No	No
GOOD ENGINEERING PRACTICE STACK HEIGHT ANALYSIS (RULE 62-212.400(5)(h)6., F.A.C., and RULE 62-212.500(4)(f), F.A.C.)	No	No
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	Yes
NEW UNIT EXEMPTION (FORM NO. 62-210.900(1)(a)2.)	No	No
Previously submitted? NO Submittal Date:	No	No
OPERATION AND MAINTENANCE PLAN	No	No
Previously submitted? NO Submittal Date:	No	No
OTHER EMISSIONS UNIT INFORMATION	No	No
OTHER INFORMATION REQUIRED BY RULE OR STATUTE	No	No
PHASE II NOx AVERAGING PLAN (FORM NO. 62-210.900(1)(a)5.)	No	No
Previously submitted? NO Submittal Date:	No	No
PHASE II NOx COMPLIANCE PLAN (FORM NO. 62-210.900(1)(a)4.)	No	No
Previously submitted? NO Submittal Date:	No	No
PROCEDURES FOR STARTUP AND SHUTDOWN	No	No
Previously submitted? NO Submittal Date:	No	No
PROCESS FLOW DIAGRAM	No	No
Previously submitted? NO Submittal Date:	No	No
REPOWERING EXTENSION PLAN (FORM NO. 62-210.900(1)(a)1.)	No	No
Previously submitted? NO Submittal Date:	No	No
RETIRED UNIT EXEMPTION (FORM NO. 62-210.900(1)(a)3.)	No	No
Previously submitted? NO Submittal Date:	No	No

EU 003: ATTACHMENTS

Supplementary Item	Electronic?	Attachment Description	Electronic File Name	Uploaded?
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	UF-EU4-D	Y:\Projects\2004\0439525 FPL TV Renewals-3\UFIEU4-D.doc	Yes

EU 005: DESCRIPTION AND DETAIL INFORMATION

Type of EU: THIS EU INFORMATION SECTION ADDRESSES, AS A SINGLE EMISSIONS UNIT, A SINGLE PROCESS OR PRODUCTION UNIT, OR ACTIVITY, WHICH PRODUCES ONE OR MORE AIR POLLUTANTS AND WHICH HAS AT LEAST ONE DEFINABLE EMISSION POINT (STACK OR VENT).

EU Description: DUCT BURNER SYSTEM ASSOCIATED WITH HRSG

EU Status: A - ACTIVE

EU Classification: R - REGULATED EMISSIONS UNIT

Acid Rain Unit? No

CEMS Required? No

Ozone SIP Base Year Unit? No

Initial Startup Date: 1/31/1994

Long-term Reserve Shutdown Date:

Commence Construction Date:

EU Major Group SIC: 49 - ELECTRIC, GAS AND SANITARY SERVICES

EU Type:

Package Unit Manufacturer: COLEN

Generator Nameplate Rating:

Incinerator Dwell Temp:

Incinerator Dwell Time:

Incinerator Afterburner Temp:

EU Comment:

EU 005: CONTROL EQUIPMENT/METHOD INFORMATION

Control Equipment/Method Name: MODIFIED FURNACE/BURNER DESIGN

Description: Low-NOx Burners

Manufacturer:

Model Number:

Serial Number:

EU 005: OPERATING CAPACITY AND SCHEDULE

Maximum Heat Input Rate: 188 mmBtu/hr

Maximum Incineration Rate:

Maximum Process or Throughput Rate:

Maximum Process or Throughput Rate Units:

Maximum Production Rate:

Maximum Process or Throughput Rate Units:

Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 2628 hours/year

Operating Capacity and Schedule: MAXIMUM HEAT INPUT BASED ON NATURAL GAS-FIRING, 950 BTU/CF (LHV). THESE

Comment: DUCT BURNERS CAN ONLY FIRE ON NATURAL GAS. REQUESTED HOURS OF OPERATION BASED ON MAXIMUM FUEL USE RATE.

EU 005: POINT (STACK/VENT) INFORMATION

Stack Number: 7

Identification of Point on Plot Plan or Flow Diagram?

Emission Point Type Code: 2 - AN EMISSION POINT SERVING 2 OR MORE EU'S CAPABLE OF SIMULTANEOUS OPERATION

Discharge Type Code: V - A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL, OR NEARLY VERTICAL DIRECTION

Stack Height: 93 feet

Exit Diameter: 9.8 feet

Exit Temperature: 257 Fahrenheit

Actual Volumetric Flow Rate: 365700 acfm

Water Vapor:

Maximum Dry Standard Flow Rate:

Nonstack Emission Point Height:

Emission Point UTM Coordinates: Zone: 17 East(km): 369 North(km): 3279.03

Emission Point Latitude: DD: 29 MM: 38 SS: 9

Emission Point Longitude: DD: 82 MM: 22 SS: 1

Emission Point Comment: The exit temperature, actual flow rate, max dry standard flow rate, and % water vapor are based on the CT only at 59def F and 60% relative humidity at inlet.

EU 005: SEGMENT (PROCESS/FUEL) INFORMATION

SCC Code: 20100201

Units: Million Cubic Feet Natural Gas Burned

Description 1: Internal Combustion Engines

Description 2: Electric Generation

Description 3: Natural Gas

Description 4: Turbine

Is this a Valid Segment? YES

Status: INACTIVE

Segment Description (Process/Fuel Type): NATURAL GAS

Maximum Hourly Rate: 0.196

Hourly Rate Limit: 0.198

Maximum Annual Rate: 519.5

Annual Rate Limit: 519.5

Estimated Annual Activity Factor:

Maximum % Sulfur:

% Sulfur Rate Limit:

Maximum % Ash:

Million Btu per SCC Unit: 950

Segment Comment:

EU 005: POLLUTANT POTENTIAL/ESTIMATED EMISSIONS INFORMATION

Pollutant Code: CO

Pollutant Description: CARBON MONOXIDE

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: EL - EMISSION-LIMITED POLLUTANT

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions: 28.1 lb/hour 36.9 tons/year

Synthetically Limited?: NO

Emissions Method: EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.

Emission Factor: 0.15

Emission Factor Units: LB/MMBTU

Emission Factor Reference:

Calculation of Emissions:

Range of Estimated Fugitive Emissions (Lower Limit):

Range of Estimated Fugitive Emissions (Upper Limit):

Pollutant Comment:

Pollutant Code: HAPS

Pollutant Description: TOTAL HAZARDOUS AIR POLLUTANTS

Is this a Valid Pollutant? YES

Status: ACTIVE**Include in the Facility Emissions**
Cap? NO**Pollutant Regulatory Code:** NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE**Primary Control Device:****Secondary Control Device:****Total % Efficiency of Control:****Potential Emissions:****Synthetically Limited?:** NO**Emissions Method:****Emission Factor:****Emission Factor Units:** PPMVD @ 8% O2**Emission Factor Reference:****Calculation of Emissions:****Range of Estimated Fugitive****Emissions (Lower Limit):****Range of Estimated Fugitive****Emissions (Upper Limit):****Pollutant Comment:****Pollutant Code:** NOX**Pollutant Description:** NITROGEN OXIDES**Is this a Valid Pollutant?** YES**Status:** ACTIVE**Include in the Facility Emissions**
Cap? YES**Pollutant Regulatory Code:** EL - EMISSION-LIMITED POLLUTANT**Primary Control Device:** MODIFIED FURNACE/BURNER DESIGN**Secondary Control Device:****Total % Efficiency of Control:** 50**Potential Emissions:** 18.7 lb/hour 24.6 tons/year**Synthetically Limited?:** NO**Emissions Method:** EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.**Emission Factor:** 0.1**Emission Factor Units:** LB/MMBTU**Emission Factor Reference:****Calculation of Emissions:****Range of Estimated Fugitive****Emissions (Lower Limit):****Range of Estimated Fugitive****Emissions (Upper Limit):****Pollutant Comment:****Pollutant Code:** PM**Pollutant Description:** PARTICULATE MATTER - TOTAL**Is this a Valid Pollutant?** YES**Status:** ACTIVE**Include in the Facility Emissions**
Cap? NO**Pollutant Regulatory Code:** NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE**Primary Control Device:****Secondary Control Device:****Total % Efficiency of Control:****Potential Emissions:****Synthetically Limited?:** NO**Emissions Method:****Emission Factor:****Emission Factor Units:** PPMVD @ 8% O2**Emission Factor Reference:****Calculation of Emissions:****Range of Estimated Fugitive****Emissions (Lower Limit):****Range of Estimated Fugitive****Emissions (Upper Limit):**

Pollutant Comment: PARTICULATE MATTER EMISSIONS SHALL BE CONTROLLED BY THE FIRING OF NATURAL GAS.

Pollutant Code: PM10

Pollutant Description: PARTICULATE MATTER - PM10

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions
Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions:

Synthetically Limited?: NO

Emissions Method:

Emission Factor:

Emission Factor Units: PPMVD @ 8% O2

Emission Factor Reference:

Calculation of Emissions:

Range of Estimated Fugitive

Emissions (Lower Limit):

Range of Estimated Fugitive

Emissions (Upper Limit):

Pollutant Comment:

Pollutant Code: SO2

Pollutant Description: SULFUR DIOXIDE

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions
Cap? NO

Pollutant Regulatory Code:

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions:

Synthetically Limited?:

Emissions Method:

Emission Factor:

Emission Factor Units:

Emission Factor Reference:

Calculation of Emissions:

Range of Estimated Fugitive

Emissions (Lower Limit):

Range of Estimated Fugitive

Emissions (Upper Limit):

Pollutant Comment: Sulfur dioxide emission shall be controlled by the firing of natural gas.

Pollutant Code: VOC

Pollutant Description: VOLATILE ORGANIC COMPOUNDS

Is this a Valid Pollutant? YES

Status: ACTIVE

Include in the Facility Emissions
Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:

Secondary Control Device:

Total % Efficiency of Control:

Potential Emissions:

Synthetically Limited?:

Emissions Method:

Emission Factor:

Emission Factor Units:

Emission Factor Reference:

Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

EU 005: POLLUTANT ALLOWABLE EMISSIONS INFORMATION

Pollutant Code: CO

Pollutant Description: CARBON MONOXIDE

Basis for Allowable Emissions Code: RULE - EMISSIONS CAP REQUIRED BY RULE

Regulation: 62-212.400(6)

Future Effective Date of Allowable Emissions:

Allowable Emissions: 0.15

Allowable Emissions Unit: POUNDS PER MILLION BTU HEAT INPUT

Equivalent Allowable Emissions: 28.1 lb/hour 36.9 tons/year

Method of Compliance:

Compliance Method Code: 1 - STACK TEST

Compliance Test Frequency: 11 - EACH FFY (1 OCT - 30 SEP)

Frequency Base Date: 9/30/1994

Comment/Description of Operating Method: While firing Natural Gas. Also see permit condition B.5 for demonstrating combined compliance of DB and CT.

Pollutant Code: NOX

Pollutant Description: NITROGEN OXIDES

Basis for Allowable Emissions Code: ESCPSD - REQUESTED BY APPLICANT TO ALLOW FACILITY OR MODIFICATION TO ESCAP PSD REVIEW

Regulation:

Future Effective Date of Allowable Emissions:

Allowable Emissions: 0.1

Allowable Emissions Unit: POUNDS PER MILLION BTU HEAT INPUT

Equivalent Allowable Emissions: 18.7 lb/hour 24.6 tons/year

Method of Compliance:

Compliance Method Code: 1 - STACK TEST

Compliance Test Frequency: 11 - EACH FFY (1 OCT - 30 SEP)

Frequency Base Date: 9/30/1994

Comment/Description of Operating Method: While firing Natural Gas. Also see permit condition section III-B.5 for demonstrating combined compliance of DB and CT.

EU 005: VISIBLE EMISSIONS INFORMATION

Visible Emissions Subtype: VE10

Basis for Allowable Opacity: OTHER

Regulation:

Requested Allowable Opacity in Normal Conditions: 10

Requested Allowable Opacity in Exceptional Conditions:

Maximum Period of Excess Opacity Allowed:

Compliance Test Method(s):

Compliance Test Frequency: 1 - ANNUALLY

Frequency Base Date: 1/1/1994

COM Required?

Visible Emissions Comment:

EU 005: CONTINUOUS MONITOR INFORMATION

*** NO CONTINUOUS MONITOR INFORMATION FOUND FOR THIS EU ***

EU 005: ADDITIONAL ITEMS

Supplementary Item

Applicable? Attachment?

ACID RAIN PART (FORM NO. 62-210.900(1)(a)) Previously submitted? NO Submittal Date:	No	No
ALTERNATIVE METHODS OF OPERATION	No	No
ALTERNATIVE MODES OF OPERATION (EMISSIONS TRADING)	No	No
CERTIFICATE OF REPRESENTATION (EPA FORM NO. 7610-1)	No	No
COMPLIANCE ASSURANCE MONITORING PLAN	No	No
COMPLIANCE DEMONSTRATION REPORTS/RECORDS Previously submitted? NO Submittal Date: Previously Submitted Test Date(s)/Pollutants Tested: To Be submitted? NO Submittal Date: To Be Submitted Test Date(s)/Pollutants Tested:	No	No
CONTROL TECHNOLOGY REVIEW AND ANALYSIS (RULES 62-212.400(6) and 62-212.500(7), F.A.C.;40 CFR 63.43(d) and (e))	No	No
DESCRIPTION OF STACK SAMPLING FACILITIES	No	No
DETAILED DESCRIPTION OF CONTROL EQUIPMENT Previously submitted? NO Submittal Date:	No	No
FUEL ANALYSIS OR SPECIFICATION Previously submitted? NO Submittal Date:	Yes	Yes
GOOD ENGINEERING PRACTICE STACK HEIGHT ANALYSIS (RULE 62-212.400(5)(h)6.,F.A.C., and RULE 62-212.500(4)(f),F.A.C.)	No	No
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	Yes
NEW UNIT EXEMPTION (FORM NO. 62-210.900(1)(a)2.) Previously submitted? NO Submittal Date:	No	No
OPERATION AND MAINTENANCE PLAN Previously submitted? NO Submittal Date:	No	No
OTHER EMISSIONS UNIT INFORMATION	No	No
OTHER INFORMATION REQUIRED BY RULE OR STATUTE	No	No
PHASE II NOx AVERAGING PLAN (FORM NO. 62-210.900(1)(a)5.) Previously submitted? NO Submittal Date:	No	No
PHASE II NOx COMPLIANCE PLAN (FORM NO. 62-210.900(1)(a)4.) Previously submitted? NO Submittal Date:	No	No
PROCEDURES FOR STARTUP AND SHUTDOWN Previously submitted? NO Submittal Date:	No	No
PROCESS FLOW DIAGRAM Previously submitted? NO Submittal Date:	Yes	Yes
REPOWERING EXTENSION PLAN (FORM NO. 62-210.900(1)(a)1.) Previously submitted? NO Submittal Date:	No	No
RETIRED UNIT EXEMPTION (FORM NO. 62-210.900(1)(a)3.) Previously submitted? NO Submittal Date:	No	No

EU 005: ATTACHMENTS

Supplementary Item	Electronic?	Attachment Description	Electronic File Name	Uploaded?
FUEL ANALYSIS OR SPECIFICATION	Yes	EU2-L2	Y:\Projects\2004\0439525 FPL TV Renew-3\UF\E2-L2.doc	Yes
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	EU2-D	Y:\Projects\2004\0439525 FPL TV Renew-3\UF\EU2-D.doc	Yes
PROCESS FLOW DIAGRAM	Yes	EU2-L1	Y:\Projects\2004\0439525 FPL TV Renew-3\UF\EU2--L1.pdf	Yes

EU 007: DESCRIPTION AND DETAIL INFORMATION

Type of EU: THIS EU INFORMATION SECTION ADDRESSES, AS A SINGLE EMISSIONS UNIT, A SINGLE PROCESS OR PRODUCTION UNIT, OR ACTIVITY, WHICH PRODUCES ONE OR MORE AIR POLLUTANTS AND WHICH HAS AT LEAST ONE DEFINABLE EMISSION POINT (STACK OR VENT).

EU Description: NEW LM6000PC-ESPRINT COMBUSTION TURBINE

EU Status: A - ACTIVE

EU Classification: R - REGULATED EMISSIONS UNIT

Acid Rain Unit? No

CEMS Required? Yes

Ozone SIP Base Year Unit? No

Initial Startup Date: 5/1/2002

Long-term Reserve Shutdown Date:

Commence Construction Date:

EU Major Group SIC: 49 - ELECTRIC, GAS AND SANITARY SERVICES

EU Type: 10.01 - ELECTRIC UTILITIES

Package Unit Manufacturer: GENERAL ELECTRIC

Generator Nameplate Rating: 48 MW

Incinerator Dwell Temp:

Incinerator Dwell Time:

Incinerator Afterburner Temp:

EU Comment: REPLACED THE GE LM6000PA (EU ID: -001)

Construction
before
1/2003

EU 007: CONTROL EQUIPMENT/METHOD INFORMATION

Control Equipment/Method Name: STEAM OR WATER INJECTION

Description: Wet Injection System to Control NOx

Manufacturer:

Model Number:

Serial Number:

EU 007: OPERATING CAPACITY AND SCHEDULE

Maximum Heat Input Rate: 481 mmBtu/hr

Maximum Incineration Rate:

Maximum Process or Throughput Rate:

Maximum Process or Throughput Rate Units:

Maximum Production Rate:

Maximum Process or Throughput Rate Units:

Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 7211 hours/year

Operating Capacity and Schedule Comment: 481 MMBTU/HR WHEN FIRING NATURAL GAS, AT 59DEG F.

EU 007: POINT (STACK/VENT) INFORMATION

Stack Number: 7

Identification of Point on Plot Plan or Flow Diagram?

Emission Point Type Code: 2 - AN EMISSION POINT SERVING 2 OR MORE EU'S CAPABLE OF SIMULTANEOUS OPERATION

Discharge Type Code: V - A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL, OR NEARLY VERTICAL DIRECTION

Stack Height: 93 feet

Exit Diameter: 9.8 feet

Exit Temperature: 257 Fahrenheit

Actual Volumetric Flow Rate: 365700 acfm

Water Vapor:**Maximum Dry Standard Flow Rate:****Nonstack Emission Point Height:****Emission Point UTM Coordinates:** Zone: 17 East(km): 369 North(km): 3279.03**Emission Point Latitude:** DD: 29 MM: 38 SS: 9**Emission Point Longitude:** DD: 82 MM: 22 SS: 1**Emission Point Comment:** The exit temperature, actual flow rate, max dry standard flow rate, and % water vapor are based on the CT only at 59def F and 60% relative humidity at inlet.**EU 007: SEGMENT (PROCESS/FUEL) INFORMATION****SCC Code: 20100101****Units:** 1000 Gallons Distillate Oil (Diesel) Burned**Description 1:** Internal Combustion Engines**Description 2:** Electric Generation**Description 3:** Distillate Oil (Diesel)**Description 4:** Turbine**Is this a Valid Segment?** YES**Status:** INACTIVE**Segment Description (Process/Fuel Type):** NO. 2 FUEL OIL**Maximum Hourly Rate:** 2.9**Hourly Rate Limit:****Maximum Annual Rate:** 635.1**Annual Rate Limit:****Estimated Annual Activity Factor:****Maximum % Sulfur:** 0.5**% Sulfur Rate Limit:** 0.5**Maximum % Ash:****Million Btu per SCC Unit:** 145**Segment Comment:** MAXIMUM ANNUAL RATE BASED ON 219 HRS/YR FUEL USAGE.**SCC Code: 20100201****Units:** Million Cubic Feet Natural Gas Burned**Description 1:** Internal Combustion Engines**Description 2:** Electric Generation**Description 3:** Natural Gas**Description 4:** Turbine**Is this a Valid Segment?** YES**Status:** INACTIVE**Segment Description (Process/Fuel Type):** NATURAL GAS**Maximum Hourly Rate:** 0.506**Hourly Rate Limit:****Maximum Annual Rate:** 4435**Annual Rate Limit:****Estimated Annual Activity Factor:****Maximum % Sulfur:****% Sulfur Rate Limit:****Maximum % Ash:****Million Btu per SCC Unit:** 1024**Segment Comment:** MAXIMUM HEAT INPUT IS BASED ON LOWER HEATING VALUE(LHV) @ 100% LOAD, 59 DEG F, 60% RELATIVE HUMIDITY, AND 14.7 PSIA. MAX PERCENT SULFUR: 1GRAIN / 100 CF OF NATURAL GAS.**EU 007: POLLUTANT POTENTIAL/ESTIMATED EMISSIONS INFORMATION****Pollutant Code: CO****Pollutant Description:** CARBON MONOXIDE**Is this a Valid Pollutant?** YES**Status:** ACTIVE**Include in the Facility Emissions**

Cap? NO
Pollutant Regulatory Code: EL - EMISSION-LIMITED POLLUTANT
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions: 29.9 lb/hour 127.5 tons/year
Synthetically Limited?: NO
Emissions Method: CALCULATED BASED ON SOURCE TEST OR CONTINUOUS EMISSION MEASUREMENTS.
Emission Factor:
Emission Factor Units:
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment: EMISSION LIMIT REDUCED FROM 36 PPMVD TO 31.6 PPMVD, CORR. TO 15% O2, AND 35.8 #/HR TO 29.9 #/HR, TO AVOID PSD NSR REQUIREMENTS.

Pollutant Code: NOX
Pollutant Description: NITROGEN OXIDES
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO
Pollutant Regulatory Code: EL - EMISSION-LIMITED POLLUTANT
Primary Control Device: STEAM OR WATER INJECTION
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions: 39.6 lb/hour 141 tons/year
Synthetically Limited?: NO
Emissions Method: EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.
Emission Factor:
Emission Factor Units:
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment: POTENTIAL BASED ON NATURAL GAS. FOR FUEL OIL 66.3 LBS/HR AND 141 TONS/YR. TONS/YR INCLUDES TOTAL NOX EMISSION; AND, INCLUDED WITH EUS - 002, -003 AND -005 IN A FACILITY-WIDE CAP OF 194.3 TPY.

Pollutant Code: PM
Pollutant Description: PARTICULATE MATTER - TOTAL
Is this a Valid Pollutant? YES
Status: ACTIVE
Include in the Facility Emissions Cap? NO
Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE
Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions: 3 lb/hour 13.1 tons/year
Synthetically Limited?: NO
Emissions Method: CALCULATED BY USE OF MATERIAL BALANCE AND KNOWLEDGE OF THE PROCESS.
Emission Factor:
Emission Factor Units:
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive

Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment: MANUFACTURER DATA.

Pollutant Code: PM10

Pollutant Description: PARTICULATE MATTER - PM10
Is this a Valid Pollutant? YES
Status: ACTIVE

Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions: 3 lb/hour 13.1 tons/year
Synthetically Limited?: NO
Emissions Method: CALCULATED BY USE OF MATERIAL BALANCE AND KNOWLEDGE OF THE PROCESS.

Emission Factor:
Emission Factor Units:
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment: MANUFACTURER DATA.

Pollutant Code: SO2

Pollutant Description: SULFUR DIOXIDE
Is this a Valid Pollutant? YES
Status: ACTIVE

Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions:
Synthetically Limited?: NO
Emissions Method:

Emission Factor:
Emission Factor Units:
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

Pollutant Code: VOC

Pollutant Description: VOLATILE ORGANIC COMPOUNDS
Is this a Valid Pollutant? YES
Status: ACTIVE

Include in the Facility Emissions Cap? NO

Pollutant Regulatory Code: NS - POLLUTANT NOT EMISSIONS-LIMITED NOT SUBJECT TO WORK PRACTICE

Primary Control Device:
Secondary Control Device:
Total % Efficiency of Control:
Potential Emissions: 5.6 lb/hour 24.5 tons/year
Synthetically Limited?: NO
Emissions Method: CALCULATED BY USE OF MATERIAL BALANCE AND KNOWLEDGE OF THE

PROCESS.

Emission Factor:
Emission Factor Units: PPMVD @ 8% O2
Emission Factor Reference:
Calculation of Emissions:
Range of Estimated Fugitive Emissions (Lower Limit):
Range of Estimated Fugitive Emissions (Upper Limit):
Pollutant Comment:

EU 007: POLLUTANT ALLOWABLE EMISSIONS INFORMATION

Pollutant Code: CO
Pollutant Description: CARBON MONOXIDE
Basis for Allowable Emissions Code: RULE - EMISSIONS CAP REQUIRED BY RULE
Regulation: 62-212.400
Future Effective Date of Allowable Emissions:
Allowable Emissions: 31.6
Allowable Emissions Unit: PARTS PER MILLION DRY GAS VOLUME @ 15% O2
Equivalent Allowable Emissions: 29.9 lb/hour 127.5 tons/year
Method of Compliance: STACK TEST
Compliance Method Code: 1 - STACK TEST
Compliance Test Frequency: 11 - EACH FFY (1 OCT - 30 SEP)
Frequency Base Date: 9/30/2003
Comment/Description of Operating Method: WHILE FIRING NATURAL GAS.

Pollutant Code: CO
Pollutant Description: CARBON MONOXIDE
Basis for Allowable Emissions Code: RULE - EMISSIONS CAP REQUIRED BY RULE
Regulation: 62-212.400
Future Effective Date of Allowable Emissions:
Allowable Emissions: 75
Allowable Emissions Unit: PARTS PER MILLION DRY GAS VOLUME @ 15% O2
Equivalent Allowable Emissions: 70.5 lb/hour 7.7 tons/year
Method of Compliance: STACK TEST. NOT REQUIRED IF FIRED < 400 HRS/YR.
Compliance Method Code: 1 - STACK TEST
Compliance Test Frequency: 11 - EACH FFY (1 OCT - 30 SEP)
Frequency Base Date: 9/30/2003
Comment/Description of Operating Method: WHILE FIRING NO. 2 FUEL OIL.

Pollutant Code: NOX
Pollutant Description: NITROGEN OXIDES
Basis for Allowable Emissions Code: RULE - EMISSIONS CAP REQUIRED BY RULE
Regulation: 62-212.400
Future Effective Date of Allowable Emissions:
Allowable Emissions: 25
Allowable Emissions Unit: PARTS PER MILLION DRY GAS VOLUME @ 15% O2
Equivalent Allowable Emissions: 39.6 lb/hour 141 tons/year
Method of Compliance: Stack test and CEMS
Compliance Method Code: 3 - STACK TEST & CMS
Compliance Test Frequency: 11 - EACH FFY (1 OCT - 30 SEP)
Frequency Base Date: 9/30/2003
Comment/Description of Operating Method: While firing natural gas. Ton/yr is for total NOX emission.

Pollutant Code: NOX**Pollutant Description:** NITROGEN OXIDES**Basis for Allowable Emissions Code:** RULE - EMISSIONS CAP REQUIRED BY RULE**Regulation:** 62-212.400**Future Effective Date of Allowable****Emissions:****Allowable Emissions:** 42**Allowable Emissions Unit:** PARTS PER MILLION DRY GAS VOLUME @ 15% O2**Equivalent Allowable Emissions:** 66.3 lb/hour 141 tons/year**Method of Compliance:** Stack test and CEMS. Not required if fired < 400 hrs/yr.**Compliance Method Code:** 3 - STACK TEST & CMS**Compliance Test Frequency:** 11 - EACH FFY (1 OCT - 30 SEP)**Frequency Base Date:** 9/30/2003**Comment/Description of Operating Method:** While firing No. 2 fuel oil. Ton/yr is for total NOX emission.**Pollutant Code: SO2****Pollutant Description:** SULFUR DIOXIDE**Basis for Allowable Emissions Code:** RULE - EMISSIONS CAP REQUIRED BY RULE**Regulation:** 40 CFR 60 Subpart GG**Future Effective Date of Allowable****Emissions:****Allowable Emissions:** 0.015**Allowable Emissions Unit:** PERCENT BY VOLUME ON A DRY BASIS**Equivalent Allowable Emissions:****Method of Compliance:** FUEL SAMPLING IN LIEU OF ANNUAL COMPLIANCE TEST.**Compliance Method Code:** 4 - FUEL SAMPLING**Compliance Test Frequency:** 0 - NONE REQUIRED**Frequency Base Date:****Comment/Description of Operating Method:** FACILITY MAY KEEP TRACK OF SULFUR CONTENT IN LIEU OF PERFORMING ANNUAL TEST. SEE PERMIT CONDITION SECT.III-10 FOR SULFUR LIMITS.**EU 007: VISIBLE EMISSIONS INFORMATION****Visible Emissions Subtype: VE10****Basis for Allowable Opacity:** RULE**Regulation:** 62-212.400**Requested Allowable Opacity in****Normal Conditions:****Requested Allowable Opacity in****Exceptional Conditions:****Maximum Period of Excess Opacity****Allowed:****Compliance Test Method(s):****Compliance Test Frequency:** 11 - EACH FFY (1 OCT - 30 SEP)**Frequency Base Date:** 9/30/2003**COM Required?****Visible Emissions Comment:** While firing natural gas.**Visible Emissions Subtype: VE20****Basis for Allowable Opacity:** RULE**Regulation:** 62-212.400**Requested Allowable Opacity in****Normal Conditions:****Requested Allowable Opacity in****Exceptional Conditions:****Maximum Period of Excess Opacity****Allowed:****Compliance Test Method(s):****Compliance Test Frequency:** 11 - EACH FFY (1 OCT - 30 SEP)

Frequency Base Date: 9/30/2003

COM Required?

Visible Emissions Comment: While firing No. 2 fuel oil.

EU 007: CONTINUOUS MONITOR INFORMATION

CM Identifier: 1

Parameter Code: EM - EMISSION

Pollutant(s) Monitored: NOX - Nitrogen Oxides

CMS Requirement:

CEM Requirement: 9 - NSPS

Monitor Manufacturer: TECO/ENVIROPLAN

Model Number: 42

Serial Number: 42-45320-273

Installation Date: 12/1/1995

Certification Date:

Performance Specification Test Date: 12/1/1995

Performance Specification Test Status: PASS

Status: ACTIVE

Continuous Monitor Comment: NOx CEMS

CM Identifier: 2

Parameter Code: FLOW - Volumetric flow rate

CMS Requirement:

CEM Requirement: 9 - NSPS

Monitor Manufacturer: YOKAGAWA/FPC

Model Number: YFA11

Serial Number: 2342B005-1992

Installation Date: 12/1/1995

Certification Date:

Performance Specification Test Date: 12/1/1995

Performance Specification Test Status: PASS

Status: ACTIVE

Continuous Monitor Comment: Gas fuel flow.

EU 007: ADDITIONAL ITEMS

Supplementary Item	Applicable?	Attachment?
ACID RAIN PART (FORM NO. 62-210.900(1)(a))	Yes	Yes
Previously submitted? NO Submittal Date:		
ALTERNATIVE METHODS OF OPERATION	Yes	Yes
ALTERNATIVE MODES OF OPERATION (EMISSIONS TRADING)	No	No
CERTIFICATE OF REPRESENTATION (EPA FORM NO. 7610-1)	Yes	Yes
COMPLIANCE ASSURANCE MONITORING PLAN	No	No
COMPLIANCE DEMONSTRATION REPORTS/RECORDS		
Previously submitted? NO Submittal Date: Previously Submitted Test Date(s)/Pollutants Tested:	Yes	Yes
To Be submitted? NO Submittal Date: To Be Submitted Test Date(s)/Pollutants Tested:		
CONTROL TECHNOLOGY REVIEW AND ANALYSIS (RULES 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))	No	No
DESCRIPTION OF STACK SAMPLING FACILITIES	Yes	Yes
DETAILED DESCRIPTION OF CONTROL EQUIPMENT	Yes	Yes
Previously submitted? NO Submittal Date:		
FUEL ANALYSIS OR SPECIFICATION	Yes	Yes
Previously submitted? NO Submittal Date:		
GOOD ENGINEERING PRACTICE STACK HEIGHT ANALYSIS (RULE 62-212.400(5)(h)6., F.A.C., and RULE 62-212.500(4)(f), F.A.C.)	No	No
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	Yes
NEW UNIT EXEMPTION (FORM NO. 62-210.900(1)(a)2.)	No	No

Previously submitted? NO Submittal Date:		
OPERATION AND MAINTENANCE PLAN	No	No
Previously submitted? NO Submittal Date:		
OTHER EMISSIONS UNIT INFORMATION	No	No
OTHER INFORMATION REQUIRED BY RULE OR STATUTE	No	No
PHASE II NOx AVERAGING PLAN (FORM NO. 62-210.900(1)(a)5.)	No	No
Previously submitted? NO Submittal Date:		
PHASE II NOx COMPLIANCE PLAN (FORM NO. 62-210.900(1)(a)4.)	No	No
Previously submitted? NO Submittal Date:		
PROCEDURES FOR STARTUP AND SHUTDOWN	Yes	Yes
Previously submitted? NO Submittal Date:		
PROCESS FLOW DIAGRAM	Yes	Yes
Previously submitted? NO Submittal Date:		
REPOWERING EXTENSION PLAN (FORM NO. 62-210.900(1)(a)1.)	No	No
Previously submitted? NO Submittal Date:		
RETIRED UNIT EXEMPTION (FORM NO. 62-210.900(1)(a)3.)	No	No
Previously submitted? NO Submittal Date:		

EU 007: ATTACHMENTS

Supplementary Item	Electronic?	Attachment Description	Electronic File Name	Uploaded?
ACID RAIN PART (FORM NO. 62-210.900(1)(a))	Yes	ACID RAIN FORM UF-EU1-L14	J:\Projects\Progress Energy TV\UF Cogen\Attachments\UF-EU-L.pdf	Yes
ALTERNATIVE METHODS OF OPERATION	Yes	UF-EU1-L10	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\E1-L10.doc	Yes
CERTIFICATE OF REPRESENTATION (EPA FORM NO. 7610-1)	Yes	CERTIFICATE OF REPRESENTATION	J:\Projects\Progress Energy TV\UF Cogen\Attachments\UF-EU1-U.pdf	Yes
COMPLIANCE DEMONSTRATION REPORTS/RECORDS	Yes	COMPLIANCE TEST REPORT	C:\Documents and Settings\sosbourn\My Documents\TV\PGN TV Renewals\UF Cogen\UF 2004 Test Report.pdf	Yes
DESCRIPTION OF STACK SAMPLING FACILITIES	Yes	UF-EU1-L4	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\EU1-L4.pdf	Yes
DETAILED DESCRIPTION OF CONTROL EQUIPMENT	Yes	UF-EU1-L3	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\E1-L3.doc	Yes
FUEL ANALYSIS OR SPECIFICATION	Yes	UF-EU1-L2	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\E1-L2.doc	Yes
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	UF-EU1-D	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\EU1-D.doc	Yes
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	ADDITIONAL APPLICABLE REQUIREMENTS	H:\PROJECTS\2004proj\043-9525 PGN Title V Support\Draft Reports\UF Cogen\007 Additional Applicable Requirements.pdf	Yes
IDENTIFICATION OF APPLICABLE REQUIREMENTS	Yes	APPLICABLE PERMITS	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\Applic Permits.pdf	Yes
PROCEDURES FOR STARTUP AND SHUTDOWN	Yes	UF-EU1-L6	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\E1-L6.doc	Yes
PROCESS FLOW DIAGRAM	Yes	UF-EU1-L1	Y:\Projects\2004\0439525 FPL TV Renewals-3\UF\EU1-L1.pdf	Yes

PROFESSIONAL ENGINEER CERTIFICATION:

I hereby certify, except as particularly noted herein*, that:

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates

of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

(3) If the purpose of this application is to obtain a Title V air operation permit (check here , if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.

(4) If the purpose of this application is to obtain an air construction permit (check here , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Professional Engineer Name: SCOTT OSBOURN
Professional Engineer Registration Number:
Date Professional Engineer Submitted: 7/2/2004

RESPONSIBLE OFFICIAL CERTIFICATION:

By entering my PIN to submit this application, I certify that I am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.

Responsible Official Name: WILSON HICKS
Date Responsible Official Submitted: 7/2/2004

*** End of Applicant's Detail Report ***
Report run at 7/22/2004 11:52:29 AM