Department of Environmental Protection Division of Air Resource Management

SUBMITTED APPLICATION REPORT APPLICATION FOR AIR PERMIT - LONG FORM

--- Form Effective 02/02/06 ---

Application Number: 1805-1

Application Name: SMITH SNCR CONSTRUCTION PERMIT

Date Submitted: 11 January 2008

I. APPLICATION INFORMATION

Air Construction Permit - Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit - Use this form to apply for:

- an initial federally enforceable state air operation permit (FESOP); or
- an initial/revised/renewal Title V air operation permit.

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) - Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility

1.	Facility Owner/Company Name: GULF POWER COMPANY					
2.	Site Name: LANSING SMITH PLANT					
3.	Facility Identification Number: 0050014					
4.	Facility Location Street Address or Other Locator:	ddress or Other 4300 COUNTY ROAD 2300				
	City: LYNN HAVEN	County: BAY	•		Zip Code: 32409	
5.	Relocatable Facility?		6. E	xisting Titl	e V Permitted Facility	
	□ Yes □ No		r	Yes	Γ Νο	

Application Contact

Application Contact Name: Application Contact Job Title: Special Projects & Environmental Assets **GLENN WATERS**

Coordinator

Application Contact Mailing Address...

Organization/Firm: GULF POWER COMPANY Street Address: ONE ENERGY PLACE

City: PENSACOLA

State: FL

Zip Code: 32520-0328

3. Application Contact Telephone Numbers...

Telephone: (850) 444-6527

ext.

Fax: (850) 444-6217

4. Application Contact Email Address: gdwaters@southernco.com

Purpose of Application

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This application for air permit is submitted to obtain: (Check one)

4ir	Construction Permit
~	Air construction permit.
Γ	Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
Γ	Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.
Air (Operation Permit
Γ	Initial Title V air operation permit.
Γ	Title V air operation permit revision.
Г	Title V air operation permit renewal.
Γ	Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
Γ	Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.
Air (Construction Permit and Revised/Renewal Title V Air Operation Permit
Cor	current Processing)
Г	Air construction permit and Title V permit revision, incorporating the proposed project.
Γ	Air construction permit and Title V permit renewal, incorporating the proposed project.
	Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:
	☐ I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

Lansing Smith is preparing to install Selective Non-Catalytic Reduction (SNCR) technology on Units 1 and 2 to comply with CAIR and CAMR regulations. SNCR construction is expected to begin on April 4, 2008. The projected startup date for this project is January, 2009. The Smith SNCR systems will be operated on an `as needed` basis to meet CAIR and CAMR. The project is expected to reduce NOx emissions. There will be no increase in emissions and thus an emission analysis is not necessary for PSD or NSR applicability.

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type
2	BOILER NUMBER 2 - 2,246.2 MMBTU/HOUR (PHASE II ACID RAIN)	AC1B
1	BOILER NUMBER 1 - 1,944.8 MMBTU/HOUR (PHASE II ACID RAIN)	AC1B

Note: The fee calculation information associated with this application may be accessed from the Main Menu of ESPAP.

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name:

Owner/Authorized Representative Job Title:

GLENN WATERS

Special Projects and Environmental Assets

Coordinator

2. Owner/Authorized Representative Mailing Address...

Organization/Firm: GULF POWER

Street Address: ONE ENERGY PLACE

City: PENSACOLA

State: FL

Zip Code: 32520-0329

3. Owner/Authorized Representative Telephone Numbers...

Telephone: (850) 444-6527

ext.

Fax:

4. Owner/Authorized Representative Email Address: GDWATERS@SOUTHERNCO.COM

5. Owner/Authorized Representative Statement:

By entering my PIN below, I certify that I am the owner/authorized representative of the facility 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 requirements identified in this application to which the facility 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.

Application Responsible Official Certification

Application Responsible Official Name:
 THEODORE MCCULLOUGH

- 2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):
 - For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.
 - For a partnership or sole proprietorship, a general partner or the proprietor, respectively.
 - For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.
 - The designated representative at an Acid Rain source.
- 3. Application Responsible Official Mailing Address...

Organization/Firm: GULF POWER

Street Address: ONE ENERGY PLACE

City: PENSACOLA

State: FL

Zip Code: 32520-0100

4. Application Responsible Official Telephone Numbers...

Telephone: (850)444-6383

ext.

Fax: (850)444-6744

5. Application Responsible Official Email Address: TJMCCULL@southernco.com

Professional Engineer Certification

1. Professional Engineer Name:

Professional Engineer Job Title:

GREGORY TERRY

Air Quality Programs Team Leader

Registration Number: 52786

2. Professional Engineer Mailing Address...

Organization/Firm: GULF POWER COMPANY
Street Address: ONE ENERGY PLACE

City: PENSACOLA

State: FL

Zip Code: 32520-0328

3. Professional Engineer Telephone Numbers...

Telephone: (850) 444-6144

ext.

Fax:

4. Professional Engineer Email Address: GNTERRY@SOUTHERNCO.COM

5. Professional Engineer Statement:

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 Γ , 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 $\overline{\lor}$, 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 Γ , 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 \Box , 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.

* Explain any exception to the certification statement.

Professional Engineer Exception Statement:

II. FACILITY INFORMATION A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates Zone 16 East (km) 625.05 North (km) 3349.24		2. Facility Latitude/Longitude Latitude (DD/MM/SS) 30° 16` 6.2" N Longitude (DD/MM/SS) 85° 41` 59.8" W	
3. Governmental Facility Code: (0) NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT	4. Facility Status Code: Active	5. Facility Major Group (49) ELECTRIC, GAS AND SANITARY SERVICES	6. Facility SIC(s): Primary: 4911
7. Facility Comment:			

Facility Contact

acı	nty_contact			
1.	Facility Contact Name:	Facility Contact Job Title:		
	GLENN DWAIN WATERS	Special Projec Coordinator	ts & Environmental Assets	
2.	Facility Contact Mailing Address			
	Organization/Firm: GULF POWER COMP	ANY		
	Street Address: ONE ENERGY PLACE	Ξ		
	City: PENSACOLA	State: FL	Zip 32520-0328 Code:	
3.	Facility Contact Telephone Numbers			
	Telephone: (850) 444-6527 ext. Fax: (850)	444-6217		
4.	Facility Contact Email Address: gdwaters@	southernco.com		

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1.	Facility Primary Responsible Official Name: THEODORE MCCULLOUGH	=	ry Responsible Official Job Title: t Power Generation	
2.				
Organization/Firm: GULF POWER Street Address: ONE ENERGY PLACE				
	City: PENSACOLA	State: FL	Zip Code: 32520-0100	

Telephone: (850) 444-6383 ext. Fax: (850) 444-6744

4. Facility Primary Responsible Official Email Address: TJMCCULL@southernco.com

<u>Facility Regulatory Classifications</u> Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source."

1.	Γ	Small Business Stationary Source
2.	Г	Synthetic Non-Title V Source
3.	7	Title V Source
4.	ত	Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)
5.	Г	Synthetic Minor Source of Air Pollutants, Other than HAPs
6.	ন	Major Source of Hazardous Air Pollutants (HAPs)
7.	Γ	Synthetic Minor Source of HAPs
8.		One or More Emissions Units Subject to NSPS (40 CFR Part 60)
9.	Γ	One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)
10.		One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)
11.	Г	Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))
12.	Fac	ility Regulatory Classifications Comment:

List of Pollutants Emitted by Facility

1. Pollutants Emitted	2. Pollutant Classification	Emissions Cap [Y or N]?
NOX	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	Y
РМ	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
со	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
SO2	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
PM10	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
VOC	(B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS	N
PB	(B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS	N
H107	(C) CLASS IS UNKNOWN	N
H106	(C) CLASS IS UNKNOWN	N
HAPS	(C) CLASS IS UNKNOWN	N
SAM	(C) CLASS IS UNKNOWN	N
TH	(C) CLASS IS UNKNOWN	N
H150	(C) CLASS IS UNKNOWN	N
H046	(C) CLASS IS UNKNOWN	N
H027	(C) CLASS IS UNKNOWN	N
H015	(C) CLASS IS UNKNOWN	N

B. Emissions Caps

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
NOX	Yes	All		6666	OTHER

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

NOX: Plant Smith has a NOx emissions cap of 6666 tons/year as a result for PSD offset for Smith Units 4&5 when they were constructed.

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)				
	☐ Applicable ☐ Previously Submitted, Date: 22-JUN-04	☐ Attachment			
2.	Process Flow Diagram(s): (Required for all permit applications, except Title permit revision applications if this information was submitted to the department previous five years and would not be altered as a result of the revision being	ent within the sought)			
	☐ Applicable ☐ Previously Submitted, Date: 22-JUN-04	☐ Attachment			
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Require applications, except Title V air operation permit revision applications if this is submitted to the department within the previous five years and would not be the revision being sought)	nformation was			
	☐ Applicable ☐ Previously Submitted, Date: 22-JUN-04	☐ Attachment			
Add	itional Requirements for Air Construction Permit Applications				
1.	Area Map Showing Facility Location: (Not applicable for existing permitted	facility)			
	☐ Applicable	☐ Attachment			
2.	Description of Proposed Construction, Modification, or Plantwide Applicabil	ity Limit (PAL):			
	Applicable	☐ Attachment			
3.	Rule Applicability Analysis:				
	✓ Applicable	✓ Attachment			
4.	List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.): (Not applicab at facility)	le if no exempt units			
	☐ Applicable	☐ Attachment			
5.	Fugitive Emissions Identification:				
	Applicable	☐ Attachment			
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.):				
	☐ Applicable	☐ Attachment			
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.):				
	☐ Applicable	☐ Attachment			
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):				
	☐ Applicable	☐ Attachment			
9.	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A	.C.):			
	☐ Applicable	☐ Attachment			
10.	Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):				
	☐ Applicable	☐ Attachment			

Additional Requirements for FESOP Applications	
1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): (N exempt units at facility)	ot applicable if no
☐ Applicable	☐ Attachment
Additional Requirements for Title V Air Operation Permit Applications	
 List of Insignificant Activities: (Required for initial/renewal applications, but applications) 	not for revision
☐ Applicable	☐ Attachment
2. Identification of Applicable Requirements (Required for initial/renewal appli revision applications if this information would be changed as a result of the resought):	-
☐ Applicable	☐ Attachment
3. Compliance Report and Plan: (Required for all initial/revision/renewal applic Note: A compliance plan must be submitted for each emissions unit that is no all applicable requirements at the time of application and/or at any time durin processing. The department must be notified of any changes in compliance st application processing.	ot in compliance with g application
☐ Applicable	☐ Attachment
4. List of Equipment/Activities Regulated under Title VI (If applicable, required applications only):	l for initial/renewal
☐ Applicable ☐ Equipment/Activities On site but Not Required to be Individually Listed	☐ Attachment
5. Verification of Risk Management Plan Submission to EPA (If applicable, req initial/renewal applications only):	uired for
☐ Applicable	☐ Attachment
6. Requested Changes to Current Title V Air Operation Permit:	
☐ Applicable	「 Attachment
Other Information Regarding this Facility:	
4. Other Facility Information:	
☐ Included	☐ Attachment
Additional Requirements Comment	

Facility Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	
Rule Applicability Analysis	DOCS-#262695-v1- Smith_Facility_list _FDEP.DOC	State applicable rule list.	Yes	01/09/2008
	DOCS-#262692-v1- Smith_Facility_list _EPADOC	Federal applicable rule list.	Yes	01/09/2008

III. EMISSIONS UNIT INFORMATION A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

- 1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
 - ► The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
 - The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions	Unit_I	Descriptio	n and Status

- 1. Type of Emissions Unit Addressed in this Section: (Check one)
 - This Emissions Unit 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).
 - This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
 - This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.
- Description of Emissions Unit Addressed in this Section:
 BOILER NUMBER 1 1,944.8 MMBTU/HOUR (PHASE II ACID RAIN)
- Emissions Unit Identification Number: 1 3. **Emissions Unit** Acid Rain Unit? **Emissions** Commence Initial Major Group **Unit Status** Construction Startup ✓ Yes Code: Date: Date: SIC Code: □ No 11-MAY-49 Α 65 Package Unit Model Number: Manufacturer:
- 10. Generator Nameplate Rating: 175 MW
- Emissions Unit Comment:
 Units -001 and -002 share a common stack

Emissions Unit Control Equipment

Code	Equipment	Description
10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0-99.9%)	Hot Precipitator Buell Model #BAL 2X34N333-4-3P and Cold Precipitator General Electric Model #BE1.2X21(12)30- 1.5-1.5-4.2P
205	LOW NOX BURNERS	Low Nox Burner Tips capable of 25% Nox Reduction.
107	SELECTIVE NONCATALYTIC REDUCTION FOR NOX	SNCR HERT Technology projected for startup in January, 2009.

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)
Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Ra	ate:					
2.	Maximum Production Rate:						
3.	. Maximum Heat Input Rate: 1944.8 million Btu/hr						
4.	Maximum Incineration Rate: pounds/hr tons/day						
5.	Requested Maximum Operating Sch	edule:					
		24 hours/day	7 days/week				
	·	52 weeks/year	8760 hours/year				
6.	Operating Capacity/Schedule Comm Coal. 153 mmBtu/hr for #2 fuel oil a		ce by fuel records.				

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification of Point on Plo Diagram:	t Plan or Flow	2. Emission Point Type Code:2 - An emission point serving 2 or more				
			EU's	capable of simultaneous operation			
3.	Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:						
4.	ID Numbers or Descriptions • 2 - BOILER NUMBER 2 -						
5.	Discharge Type Code: (V) A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL/NEARLY VERTICAL DIRECTION	6. Stack Height: 199 feet		7. Exit Diameter: 18 feet			
8.	Exit Temperature: 334° F	9. Actual Volu Rate: 1568308 acf		10. Water Vapor: %			
11.	Maximum Dry Standard Flow dscfm	v Rate:	12. Nonstack Emission Point Height: feet				
13.	Emission Point UTM Coordin Zone: 16 East (km) North (km)	: 625.053	14. Emission Point Latitude/Longitude Latitude: 30° 16' 6.2" N Longitude: 85° 41' 59.8" W				
15.	. Emission Point Comment: Units -001 and -002 share a common stack. Flow rate above for both units.						

D. SEGMENT (PROCESS/FUEL) INFORMATION Segment Description and Rate: Segment 1 of 3

1.	Segment Description (Process/Fuel Type): Boiler fired with Pulverized Bituminous Coal. Emissions related to tons burned.					
2.	. Source Classification Code (SCC): 10100212		SCC Units: Tons Bituminous Coal Burned			
4.	Maximum Hourly Rate: 81.03	5. Maximum A	5. Maximum Annual Rate:		Estimated Annual Activity Factor:	
7.	Maximum % Sulfur: 3	8. Maximum % Ash: 14.4		9.	Million Btu per SCC Unit: 24	
10.	 Segment Comment: Minimum MBTU per SCC unit is 23. Average MBTU is 24 and annual based on permitted rate. Max % sulfur based on 12,700 btu/lb coal. 					
	Is this a valid segment? Yes					

Segi	ment Description and Rate:	Segment 2 of 3						
1.	Segment Description (Process/Fuel Type): Boiler fired with #2 fuel oil and `on spec.` used oil. Emissions related to thousand gallons burned.							
2.	Source Classification Code (10100501	SCC):	3. SCC Units: 1000 Gallons Distillate Oil (No. 1 & 2) Burned					
4.	Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:				
7.	Maximum % Sulfur: .5	8. Maximum % Ash:		9. Million Btu per SCC Unit: 138				
10.	0. Segment Comment: The maximum % Ash is approximately 0.05 %. Item 8 above will not accept low % number.							
	Is this a valid segment? Yes							

Segment Description and Rate: Segment 3 of 3

1.	Segment Description (Procest Waste Oil	ss/Fuel Type):	•				
2.	2. Source Classification Code (SCC): 10101302		3. SCC Units: 1000 Gallons Waste Oil Burned				
4.	Maximum Hourly Rate:	5. Maximum A	nnual Rate:	6. Estimated Annual Activity Factor:			
7.	Maximum % Sulfur:	8. Maximum %	6 Ash:	9. Million Btu per SCC Unit:132			
10.	Used oil specification: Arsenic 5 PPM, Cadmium 2 PPM, Chromium 10 PPM, Lead 100 PPM, Total Halogens 1000 PPM, PCB50 ppm.						
	Is this a valid segment? Yes						

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code	Valid?
CO	,		NS	Yes
H015			EL	Yes
H027			EL	Yes
H046			EL	Yes
H106				Yes
H107				Yes
H150			EL	Yes
HAPS				Yes
NOX	NSCR (NON- SELECTIVE CATALYTIC REDUCTION)	LOW NOX BURNERS	EL	Yes
PB			EL	Yes
PM	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)		EL	Yes
PM10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)		NS	Yes
SO2			EL	Yes
VOC				Yes

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: CO - Carbon Monoxide	2. Total Percent Efficiency of Control:						
3.	Potential Emissions: 40.5 lb/hour 177.4 to	ons/year	4. Lin	nthetically nited? Yes	₽ No			
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year						
6.	Emission Factor: .5 LB/TON Reference: AP-42			(3) C USIN FAC	sions Method Code: ALCULATED IG EMISSION FOR FROM AP- RE SYSTEM.			
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24-mo	onth Perioc To				
9.a.	Projected Actual Emissions (if required): tons/year	•	eted Monitoring Period: years					
10.	10. Calculation of Emissions: Emission factor = 0.5 CO lbs/ton of coal: 0.50 (81.03 tons/hr) = 40.5 CO lbs/hr 0.50 (81.03) (8760) (1/2000) = 177.4 CO tons/hr							
11.	Pollutant Potential, Fugitive, and Actual Emissions Comment: Source; AP-42							

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H015 - Arsenic Compounds (inorganic including arsine)	2. Total Percent Efficiency of Control:					
3.	Potential Emissions: Ib/hour to	ons/year	4. Synthetically Limited? ☐ Yes ☐ No				
5.	Range of Estimated Fugitive Emissions (as app to to	licable): ons/year					
6.	Emission Factor:			7.	Emiss	sions Method Code:	
	Reference:						
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:					
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years					
10.	Calculation of Emissions:						
11.	Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 5 ppm as specification of used oil.						

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H027 - Cadmium Compounds	2. Total P	erce	ent	Effic	iency	of Control:
3.	Potential Emissions: lb/hour to	ons/year	4.	L	nthe imite Ye	-	y No
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year					
6.	Emission Factor: Reference:				7.	Emi	ssions Method Code
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 2	4-n	nonth		od: To:
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte □ 5 y	ed N ears		itori	ng Per	riod: 10 years
10.	Calculation of Emissions:						
11.	Pollutant Potential, Fugitive, and Actual Emissic Limited to 2 ppm as specification of used oil.	ons Commer	nt:				

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:					
	H046 - Chromium Compounds						
3.	Potential Emissions: lb/hour	ons/year	4.	Lin	ithe nited Yes		┌ No
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year					
6.	Emission Factor:				7.	Emiss	ions Method Code:
	Reference:						
8.a.	. Baseline Actual Emissions (if required):	8.b. Baselir	ne 2	4-mo	nth	Period:	
	tons/year	From:				To:	
9.a.	Projected Actual Emissions (if required):	9.b. Projecto	ed N	1onit	orin	ng Perio	d:
	tons/year	Г 5 у	ears	,		Γ	10 years
10.	Calculation of Emissions:						
11.	Pollutant Potential, Fugitive, and Actual Emission	ons Commer	nt:				
	Limited to 10 ppm as specification of used oil.						

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H106 - Hydrogen chloride (Hydrochloric acid)	2. Total Percent Efficiency of Control:								
3.	Potential Emissions: lb/hour to	ons/year	4. Lin	nthetica nited? Yes	ally	□ No				
5.	5. Range of Estimated Fugitive Emissions (as applicable): to tons/year									
6.	Emission Factor:			7. E	miss	ions Method Code:				
	Reference:	<u> </u>								
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24-month Period: To:							
9.a.	Projected Actual Emissions (if required): tons/year	_	ted Monitoring Period: years							
10.	Calculation of Emissions:									
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:										

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H107 - Hydrogen fluoride (Hydrofluoric acid)	2. Total Percent Efficiency of Control:							
3.		ons/year	4. Synthetically Limited? ☐ Yes ☐ No						
5.	Range of Estimated Fugitive Emissions (as applicable): to tons/year								
6.	Emission Factor:				7.	Emis	ssions Method Code:		
	Reference:								
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	e 24-month Period: To:						
9.a.	Projected Actual Emissions (if required): tons/year	_	ed Monitoring Period: rears						
10.	Calculation of Emissions:						•		
11.	Pollutant Potential, Fugitive, and Actual Emission	ons Commer	it:						

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H150 - Polychlorinated biphenyls (Aroclors)	2. Total Percent Efficiency of Control:					
3.	Potential Emissions: lb/hour to	ons/year	4.	Lin	nthet nited Yes		Г No
5.	Range of Estimated Fugitive Emissions (as app to to	licable): ons/year					
6.	Emission Factor:				7.	Emissio	ons Method Code:
	Reference:						
8.a.	Baseline Actual Emissions (if required):	8.b. Baselin	ne 24	4-mc	nth	Period:	
	tons/year	From:				To:	
9.a.	Projected Actual Emissions (if required):	9.b. Projecte	ed N	1onit	orin	g Period	l:
	tons/year	Г 5 ус	ears				0 years
10.	Calculation of Emissions:						
11.	Pollutant Potential, Fugitive, and Actual Emissic Limited to 50 ppm as specification of used oil.	ons Commen	ıt:				

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: HAPS - Total Hazardous Air Pollutants	2. Total Percent Efficiency of Control:						
3.	Potential Emissions: lb/hour	ons/year	4. Lii	nthe mited Yes		□ No		
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year						
6.	Emission Factor:			7.	Emissi	ons Method Code:		
	Reference:							
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselin From:	ie 24-m	onth	Period: To:			
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed Moni ears	torir	_	d: 10 years		
10.	Calculation of Emissions:							
11.	Pollutant Potential, Fugitive, and Actual Emission	ons Commen	ıt:					

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: NOX - Nitrogen Oxides	2. Total P 62	ercent I	Efficie	ency of Control:
3.	Potential Emissions: 1205.8 lb/hour 5281 t	ons/year	4. Li	ntheti mited' Yes	
5.	Range of Estimated Fugitive Emissions (as app to t	olicable): ons/year			
6.	Emission Factor: .62 LB/MMBTU Reference: PERMIT				Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION.
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24-m	onth I	Period: To:
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed Mon ears	itoring	g Period:
10.	Calculation of Emissions: 0.62 lb/mmbtu * 1944.8 mmbtu/hr = 1205.8 lb/ton/yr	/hr; 1205.8 lb	o/hr * 87	760 hr	/yr/2000 lb/ton = 5281
11.	Pollutant Potential, Fugitive, and Actual Emissi Facility-wide NOx cap of 6,666 tpy. Emission average. Potential emission rate with SNCR rar	factor based	on Acid		

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: (OTHER) assumed by applicant for other reasons (Explain in comment field)	. Future Effective Date of Allowable Emissions:						
3.	Allowable Emissions and Units: .62 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 1205.78 lb/hour 5281 tons/year						
5.	Method of Compliance: Annual average of CEM hourly data. (40 CFR	Part 75)						
6.	Allowable Emissions Comment (Description of Operating Method): Phase II NOx. There are no requirements to operate the proposed SNCR system. Source will operate the SNCR as needed to meet CAIR and CAMR							

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: PB - Lead - Total (elemental lead and lead compounds)	2. Total Percent Efficiency of Control:					
3.	Potential Emissions: lb/hour te	ons/year	4. Synthetically Limited? ☐ Yes ☐ No				
5.	Range of Estimated Fugitive Emissions (as approximated to to	olicable): ons/year					
6.	Emission Factor:			7. Emi	issions Method Code:		
	Reference:						
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselii From:	ne 24-mo		od: Fo:		
9.a.	Projected Actual Emissions (if required): tons/year	ľ	cted Monitoring Period: years □ 10 years				
10.	Calculation of Emissions:						
11.	Pollutant Potential, Fugitive, and Actual Emissic Limited to 100 ppm as specification of used oil		nt:				

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: PM - Particulate Matter - Total	2. Total P 98	ercent E	fficie	ency of Control:
3.	Potential Emissions: 194.5 lb/hour 1065 t	ons/year	4. Lin	ntheti nited Yes	
5.	Range of Estimated Fugitive Emissions (as app to t	olicable): ons/year			
6.	Emission Factor: .125 LB/MMBTU Reference: PERMIT		·	7.	Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION.
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24-mo	onth l	Period: To:
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed Monit	toring	g Period: ☐ 10 years
10.	Calculation of Emissions: lb/hr = 1944.8 mmBtu/hr*0.1 lb/mmBtu = 194. * 8760 hrs/yr/*1 ton/2000 lb = 1065 TPY	.5lb/hr. TPY	= 1944.8	8 mm	nBtu/hr*0.125 lb/mmBtu
11.	Pollutant Potential, Fugitive, and Actual Emissi Emission factor based on 0.1 lb/MMBtu, 21 ho blowing).			3 lb/l	MMBtu, 3 hours (soot-

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

1.	Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2.	Future Effective Date of Allowable Emissions:						
3.	Allowable Emissions and Units: .1 POUNDS PER MILLION BTU HEAT INPUT	4.	Equivalent Allowable Emissions: 194.48 lb/hour 1065 tons/year						
5.	Method of Compliance: Test not required if operation < 400 hours/FFY								
6.	Allowable Emissions Comment (Description of Operating Method): During normal operations while firing coal.								

Allo	wable Emissions Allowable Emissions 2 of 2							
1.	Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2.	Future Effective Date of Allowable Emissions:					
3.	Allowable Emissions and Units: .3 POUNDS PER MILLION BTU HEAT INPUT	4.	Equivalent Allowable Emissions: 583.44 lb/hour 1065 tons/year					
5.	Method of Compliance: Test not required if operation < 400 hours/FFY	· .						
6.	Allowable Emissions Comment (Description of During the 3 hrs in any 24 hrs period allowed fichanging.	-	,					

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: PM10 - Particulate Matter - PM10	2. Total Poses	erce	nt E	Effici	ency of	Control:
3.	Potential Emissions: 194.5 lb/hour 1065 t	ons/year	4.	Lir	nthe nited Yes		▽ No
5.	Range of Estimated Fugitive Emissions (as app to t	olicable): ons/year					
6.	Emission Factor: Reference:				7.	(0) EQ EQUIV ALLO EMISS	ons Method Code: UAL TO VALENT WABLE SION/WORST- ALLOWABLE SION.
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselin From:	ne 24	1-m	onth	Period: To:	
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed M ears		torir	_	l: 10 years
10.	Calculation of Emissions:						
11.	Pollutant Potential, Fugitive, and Actual Emissi Assumed to be the same as PM.	ons Commen	ıt:				

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: SO2 - Sulfur Dioxide	2. Total Percent Efficiency of Control:							
3.	Potential Emissions: 4084.08 lb/hour 17888 to	ons/year	4.	Lin	nthet nited Yes				
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year							
6.	Emission Factor: 2.1 LB/MMBTU Reference: PERMIT				7.	Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION.			
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 2	4-m	onth	Period: To:			
9.a.	Projected Actual Emissions (if required): tons/year	_	Projected Monitoring Period: ☐ 5 years ☐ 10 years						
10.	10. Calculation of Emissions: 2.1 lb/mmbtu * 1944.8 mmbtu/hr = 4084.08 lb/hr; 4094.08 lb/hr * 8760 hr/yr * 1/2000 lb/ton = 17888 ton/yr								
11.	Pollutant Potential, Fugitive, and Actual Emissions Comment: Potential based on Unit 1 standard of 2.1 lb/mmbtu rate. Unit 1 can emit at 4.5 lb/mmbtu if both coal units on line.								

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: (OTHER) assumed by applicant for other reasons (Explain in comment field)	2.	Future Effective Date of Allowable Emissions:					
3.	Allowable Emissions and Units: 2.1 POUNDS PER MILLION BTU HEAT INPUT	4.	Equivalent Allowable Emissions: 4084.08 lb/hour 17888 tons/year					
5.	Method of Compliance: Daily 24 hour average based on CEM or FS&A	\ Pro	ogram.See SC12.					
6.	Allowable Emissions Comment (Description o Applicant request. 4.5 lbs/mmBtu for unit 1 an	-	· · · · · · · · · · · · · · · · · · ·					

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: VOC - Volatile Organic Compounds	2. Total Po	erce	nt E	ffici	ency of	Control:
3.	Potential Emissions: 5.7 lb/hour 24.8 to	ons/year	4.	Lir	nthet nited Yes		₽ No
5.	Range of Estimated Fugitive Emissions (as app to to	licable): ons/year					_
6.	Emission Factor: .07 LB/TON BURNED Reference: SCC					(3) CA USING FACTO	ons Method Code: LCULATED E EMISSION OR FROM AP- E SYSTEM.
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselin From:	ne 2	4-m	onth	Period: To:	
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed M ears		torin	_	l: 10 years
10.	Calculation of Emissions: 0.07 lb/ton * 81.03 ton/yr = 5.7 lb/hr; 5.7 lb/hr	* 8760 hours	s/yr	* 1/	2000	lb/ton =	= 24.8 tons/yr
11.	Pollutant Potential, Fugitive, and Actual Emissi	ons Commer	nt:				

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

1.	Visible Emissions Subtype:	2. Basis for Allow	able Opacity:	
	VE40 - VISIBLE EMISSIONS - 40% NORMAL OPACITY	▼ Rule	□ Other	
3.	Allowable Opacity:			
	Normal Conditions: 40%	Exceptional Conditions:	%	
	Maximum Period of Excess Opacity Allo	owed:	min/hour	

4. Method of Compliance:

5. Visible Emissions Comment:

The Permittee elected to utilize a transmissometer (opacity meter) for demonstrating compliance with the visible emissions limit.

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

A 191	DIC EMISSIONS ETHICATION: VISIONE ETHISSIONS		intation 2 of 2	
1.	Visible Emissions Subtype: VE60 - VISIBLE EMISSIONS - 60% NORMAL OPACITY	2.	Basis for Allov Rule	vable Opacity: Cother
3.	Allowable Opacity: Normal Conditions: % Exception Maximum Period of Excess Opacity Allowed:	otio	nal Conditions:	% min/hour
4.	Method of Compliance:			
5.	Visible Emissions Comment: During the 3-hrs in any 24 hr period allowed for Test not required if operation < 400 hours/FFY		oiler cleaning (so	ot blowing) and load change.

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 6

1.	Parameter Code: FLOW - Volumetric flow rate	2.	Pollutant(s):
3.	CMS Requirement:	V	Rule Cother
4.	Monitor Information Manufacturer: SICK Model FLOWSIC107 Number:		Serial Number: 00478749
5.	Installation Date: 02-OCT-01	6.	Performance Specification Test Date: 10-JUN-03
7.	Continuous Monitor Comment: Smith Flow monitor is a combination of the Sie	erra	and Sick Systems.
	Status: Active		
<u>Con</u>	tinuous Monitoring System: Continuous Mo	nito	or 2 of 6
1.	Parameter Code: CO2 - Carbon dioxide	2.	Pollutant(s):
3.	CMS Requirement:	Γ	Rule Cother
4.	Monitor Information Manufacturer: SIEMENS Model Number: ULTRAMAT 6E		Serial Number:
5.	Installation Date: 02-OCT-01	6.	Performance Specification Test Date: 10-JUN-03
7.	Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monito measure the diluent component of the SO2 and CO2 under 2-296.405(
	Status: Active		

1.			r 3 01 0			
1.	Parameter Code:	2.	Pollutant(s):	·		
_	EM - EMISSION		SO2			
3.	CMS Requirement:	<u></u>	Rule	☐ Other		
4.	Monitor Information					
	Manufacturer: THERMO ENVIRONMENTA	.L				
	Model 43C Number:		Nur	Serial 43C-70674-366 nber:		
5.	Installation Date:	6.	Performance S	Specification Test Date:		
	02-OCT-02		10-JUN-03	•		
7.	Continuous Monitor Comment:					
	Unit has elected to install and operate CEM for sampling and analysis under rule 62-296.405(1)					
	Status: Active					
Con	tinuous Monitoring System: Continuous Mo	nito	r 4 of 6			
1.	Parameter Code:	2.	Pollutant(s):			
	VE - Visible emissions (opacity)					
3.	CMS Requirement:	Г	Rule	□ Other		
4	Monitor Information					
4.	Monto miornation			-		
4.	Manufacturer: SPECTRUM SYSTEMS			·		
4.				Serial 1418010,1418008 nber:		
4 .	Manufacturer: SPECTRUM SYSTEMS Model Spec42	6.	Nun	1410010 1410000		
	Manufacturer: SPECTRUM SYSTEMS Model Number: SPEC42	6.	Nun	1418010,1418008		
	Manufacturer: SPECTRUM SYSTEMS Model SPEC42 Installation Date:	6.	Nun Performance S	1418010,1418008		

	ontinuous Monitoring System: Continuous Monitor 5 of 6					
1.	Parameter Code:	2.	Pollutant(s):			
	EM - EMISSION		NOX			
3.	CMS Requirement:	∀	Rule	□ Other		
4.	Monitor Information					
	Manufacturer: THERMO ENVIRONMENTA	L				
	Model 42C			Serial 42C-70205-365		
	Number: 42C		Nu	mber: 42C-70203-303		
5.	Installation Date:	6.	Performance	Specification Test Date:		
	02-OCT-01		10-JUN-03			
7.	Continuous Monitor Comment:					
	Spectrum Systems Model 300 Dilution Monitoring System uses Siemens and Teco analyzers to					
	calculate unit NOx emission rate. CEM required under Title IV 40 CFR Part 75.					
	Status: Active					
Con	tinuous Monitoring System: Continuous Mo	nito	r 6 of 6			
1.	Parameter Code:	2.	Pollutant(s):			
	FLOW - Volumetric flow rate					
3.	CMS Requirement:	Γ	Rule	□ Other		
4.	Monitor Information					
	Manufacturer: SIERRA					
	Model 650			Serial SM-1B		
	Number: 630		Nu	mber: SIVI-1B		
5.	Installation Date:	6.	Performance	Specification Test Date:		
	01-DEC-93		10-JUN-03			
7.	Continuous Monitor Comment:			* •		
	Spectrum Systems Model 300 Dilution Monitor					
	flow to calculate hourly emissions. CEM flow i	mon	itors are requir	red under Title IV 40 CFR Part		
	75.					
	Status: Active					

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram (Required for all permit applications, except Title revision applications if this information was submitted to the department years and would not be altered as a result of the revision being sought) Applicable Previously Submitted, Date:	t within the p	
2.	Fuel Analysis or Specification (Required for all permit applications, exception applications if this information was submitted to the deput previous five years and would not be altered as a result of the revision be Applicable Previously Submitted, Date:	artment with eing sought)	
3.	Detailed Description of Control Equipment (Required for all permit appliair operation permit revision applications if this information was submitt within the previous five years and would not be altered as a result of the Applicable Previously Submitted, Date:	ted to the dep revision bein	partment
4.	Procedures for Startup and Shutdown (Required for all operation permit V air operation permit revision applications if this information was submy within the previous five years and would not be altered as a result of the Applicable Previously Submitted, Date:	nitted to the correvision beir	department
5.	Operation and Maintenance Plan (Required for all permit applications, expermit revision applications if this information was submitted to the departure of the years and would not be altered as a result of the revision beautiful Applicable Previously Submitted, Date:	artment with eing sought)	
6.	Compliance Demonstration Reports/Records Applicable Previously Submitted, Date: To Be Submitted, Date (if known): Previously Submitted Test Date(s)/Pollutants Tested: To be Submitted Test Date(s)/Pollutants Tested: Note: For FESOP applications, all required compliance demonstration resubmitted at the time of application. For Title V air operation permit application reports/records must be submitted at the time	cords/reports	required
7.	ompliance plan must be submitted at the time of application. Other Information Required by Rule or Statute ☐ Applicable		achment

Additional Requirements for Title V Air Operation Permit Applications

1.	Identification of Applicable Requirements	
	✓ Applicable	✓ Attachment
2.	Compliance Assurance Monitoring Plan	
	☐ Applicable	☐ Attachment
3.	Alternative Methods of Operation	
	▼ Applicable	✓ Attachment
4.	Alternative Modes of Operation (Emissions Trading)	
	☐ Applicable	☐ Attachment
5.	Acid Rain Part Application	
	Certificate of Representation (EPA Form No. 7610-1)	
	☐ Applicable ☐ Previously Submitted, Date:	☐ Attachment
	Acid Rain Part (Form No. 62-210.900(1)(a))	
	☐ Applicable ☐ Previously Submitted, Date:	☐ Attachment
	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)	
	☐ Applicable ☐ Previously Submitted, Date:	☐ Attachment
	New Unit Exemption (Form No. 62-210.900(1)(a)2.)	i
	☐ Applicable ☐ Previously Submitted, Date:	Attachment
	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)	
	☐ Applicable ☐ Previously Submitted, Date:	☐ Attachment
	Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)	
	☐ Applicable ☐ Previously Submitted, Date:	☐ Attachment
	Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)	
	☐ Applicable ☐ Previously Submitted, Date:	☐ Attachment

Ade	ditional Requirements for Air Construction Permit Applicate	t <u>ions</u>
1.	Control Technology Review and Analysis (Rules 62-212.400(CFR 63.43(d) and (e))	(10) and 62-212.500(7), F.A.C.; 40
	☐ Applicable	☐ Attachment
2.	Good Engineering Practice Stack Height Analysis (Rule 62-2) 212.500(4)(f), F.A.C.)	12.400(4)(d), F.A.C., and Rule 62-
	☐ Applicable	☐ Attachment
3.	Description of Stack Sampling Facilities (Required for proposonly)	sed new stack sampling facilities
	☐ Applicable	☐ Attachment
Oth	ner Information Regarding this Emissions Unit	
1.	Other Emissions Unit Information	
	✓ Applicable	✓ Attachment
	Note: Provide any other information related to the emissions uniformation Section that is not elsewhere provided in the applicant, believe may be helpful.	
Ado	ditional Requirements Comment	

Emission Unit Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	
Procedures for Startup and Shutdown	SMITH SNCR Startup _ Shutdown Procedures.doc	Smith SNCR Startup and Shutdown Procedures.	Yes	01/07/2008
Other Emissions Unit Information	Smith SNCR Schedule.pdf	Smith SNCR Schedule.	Yes	01/04/2008
Identification of Applicable Requirements	DOCS-#262697-v1- SmithUnit_001 _EPA.DOC	Federal applicable rule list for Unit 1.	Yes	01/09/2008
	DOCS-#262696-v2- SmithUnit_001 FDEP.DOC	State applicable rule list for Unit 1.	Yes	01/10/2008
Alternative Methods of Operation		Alternative Methods of Operation List.	Yes	01/04/2008

III. EMISSIONS UNIT INFORMATION A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

- (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
 - The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
 - The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions	Unit	Description	and Status

- Type of Emissions Unit Addressed in this Section: (Check one)
 - This Emissions Unit 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).
 - This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
 - This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.
- Description of Emissions Unit Addressed in this Section: BOILER NUMBER 2 - 2,246.2 MMBTU/HOUR (PHASE II ACID RAIN)
- 3. Emissions Unit Identification Number: 2
- **Emissions Unit Status** Code: Α
- Commence Construction Date:
- Initial Startup Date: 08-APR-67

MW

7. **Emissions Unit** Major Group SIC Code: 49

Model Number:

- 8. Acid Rain Unit? ✓ Yes
 - □ No

Package Unit

Manufacturer:

10. Generator Nameplate Rating: 205

11. Emissions Unit Comment:

Units -001 and -002 share a common stack

Emissions Unit Control Equipment

Code	Equipment	Description
24	MODIFIED FURNACE/BURNER DESIGN	Low NOx burners manufactured by Foster Wheeler.
10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0-99.9%)	Hot Precipitator Buell Model #BAL 2X34N333-4-3P and Cold Precipitator General Electric Model #BE2.1X(2-12'S) (12)-30-111-4.3P
205	LOW NOX BURNERS	Low NOx Burners capable of 25% reduction.
107	SELECTIVE NONCATALYTIC REDUCTION FOR NOX	SNCR HERT Technology projected for startup in January, 2009.

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput R	ate:				
2.	Maximum Production Rate:					
3.	Maximum Heat Input Rate: 2246.2 million Btu/hr					
4.	. Maximum Incineration Rate: pounds/hr tons/day					
5.	Requested Maximum Operating Sch	nedule:				
		24 hours/day	7 days/week			
		52 weeks/year	8760 hours/year			
6.	Operating Capacity/Schedule Comn	nent:				
	Coal. 76 mmBtu/hr for #2 fuel oil as	nd "on-spec" used oil. Compliand	Coal. 76 mmBtu/hr for #2 fuel oil and "on-spec" used oil. Compliance by fuel records.			

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification of Point on Plo	t Plan or Flow	2. Emission Point Type Code:					
	Diagram:		2 - An emission point serving 2 or more EU's capable of simultaneous operation					
		<u> </u>	EU's	capable of simultaneous operation				
3.	Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:							
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common: • 1 - BOILER NUMBER 1 - 1,944.8 MMBTU/HOUR (PHASE II ACID RAIN)							
5.	Discharge Type Code: (V) A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL/NEARLY VERTICAL DIRECTION	6. Stack Heigh 199 feet	t:	7. Exit Diameter: 18 feet				
8.	Exit Temperature: 334° F	9. Actual Volu Rate: 1568308 acf		10. Water Vapor:				
11.	Maximum Dry Standard Flow dscfm	v Rate:	12. Nonstack Emission Point Height: feet					
13.	Zone: 16 East (km): 625.053 North (km): 3349.243		14. Emission Point Latitude/Longitude Latitude: 30° 16' 6.2" N Longitude: 85° 41' 59.8" W					
15.	Units -001 and -002 share a common stack. Flow rate above for both units.							

D. SEGMENT (PROCESS/FUEL) INFORMATION Segment Description and Rate: Segment 1 of 3

1.	Segment Description (Process/Fuel Type): Boiler fired with Pulverized Bituminous Coal. Emissions related to tons burned.						
2.	Source Classification Code (SCC): 10100212			3. SCC Units: Tons Bituminous Coal Burned			
4.	Maximum Hourly Rate: 93.59	5.	5. Maximum Annual Rate:		6.	Estimated Annual Activity Factor:	
7.	Maximum % Sulfur: 3	8.	Maximum % Ash:		9.	Million Btu per SCC Unit: 24	
10.	10. Segment Comment: Minimum MBTU per SCC unit is 23. Average MBTU is 24.						
	Is this a valid segment? Yes						

SCA	ment Description and Kate:	Segment 2 01 3				
1.	Segment Description (Process/Fuel Type): Boiler fired with #2 fuel oil and "on spec." used oil. emissions related to thousand gallons burned.					
2.	Source Classification Code (SCC): 10100501 3. SCC Units: 1000 Gallons Distillate Oil (No. 1 & 2) Burned					
4.	Maximum Hourly Rate: .55	5. Maximum Annual Rate:		6. Estimated Annual Activity Factor:		
7.	Maximum % Sulfur: .5	8. Maximum % Ash:		9. Million Btu per SCC Unit: 138		
10.). Segment Comment: Maximum persent ash in item 8 is 0.05 %.					
	Is this a valid segment? Yes					

Segment Description and Rate: Segment 3 of 3 Segment Description (Process/Fuel Type): Source Classification Code (SCC): 3. SCC Units: 1000 Gallons Waste Oil Burned 10101302 **Estimated Annual Activity** 6. Maximum Hourly Rate: 5. Maximum Annual Rate: Factor: Maximum % Sulfur: 8. Maximum % Ash: Million Btu per SCC Unit: 132 10. Segment Comment: Used oil specification: Arsenic 5 PPM, Cadmium 2 PPM, Chromium 10 PPM, Lead 100 PPM, Total Halogens 1000 PPM, PCB50 ppm. Is this a valid segment? Yes

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

	tted by Emissions Unit		Land	1
1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code	Valid?
CO			NS	Yes
H015			EL	Yes
H027			EL	Yes
H046		'	EL	Yes
H106				Yes
H107				Yes
H150			EL	Yes
HAPS				Yes
NOX	NSCR (NON- SELECTIVE CATALYTIC REDUCTION)	LOW NOX BURNERS	EL ·	Yes
PB	·		EL	Yes
PM	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)		EL '	Yes
PM10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)		NS	Yes
SO2			EL	Yes
VOC				Yes

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: CO - Carbon Monoxide	2. Total P	ercent E	fficiency of	f Control:		
3.	Potential Emissions: 46.8 lb/hour 205 to	ons/year	4. Lin	nthetically nited? Yes	₩ No		
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year					
6.	Emission Factor: .5 LB/TON Reference: AP-42			(3) CA USING FACT	ions Method Code: ALCULATED G EMISSION OR FROM AP- RE SYSTEM.		
8.a.	. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:					
9.a.	Projected Actual Emissions (if required): tons/year	· •	ed Monitoring Period: ears				
10.	 10. Calculation of Emissions: 0.5 CO lbs/ton of coal 0.50 (93.59 tons/hr) = 46.8 lbs/hr 0.50 (93.59) (8760) (1/2000) = 204.96 tons/yr 						
11.	11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Source; AP-42						

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

1.	Pollutant Emitted: H015 - Arsenic Compounds (inorganic including arsine)	2. Total Percent Efficiency of Control:				
3.	Potential Emissions: lb/hour to	ons/year	4. Lin	nthetica nited? Yes	lly	┌ No
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year				
6.	Emission Factor:		:	7. Er	nissior	ns Method Code:
	Reference:					
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24-mo	onth Per	riod: To:	
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years			years	
10.	Calculation of Emissions:					
11.	Pollutant Potential, Fugitive, and Actual Emissic Limited to 5 ppm as specification of used oil.	ons Commer	ıt:			

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H027 - Cadmium Compounds	2. Total Percent Efficiency of Control:							
3.	Potential Emissions: lb/hour to	ons/year	4.	Syr Lin		□ No			
5.	Range of Estimated Fugitive Emissions (as applicable): to tons/year								
6.	Emission Factor:		<u> </u>		7.	Emissio	ons Method Code:		
	Reference:								
8.a.	Baseline Actual Emissions (if required):	8.b. Baselin	ne 2	4-mc	onth	Period:			
	tons/year	From:				To:			
9.a.	Projected Actual Emissions (if required):	9.b. Projecte	ed N	1oni	torir	ng Period	l :		
	tons/year	□ 5 y ₀	ears			r :	10 years		
10.	Calculation of Emissions:								
11.	Pollutant Potential, Fugitive, and Actual Emission	ons Commen	nt:		•				
	Limited to 2 ppm as specification of used oil.								

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

operation permit.

1.	Pollutant Emitted: H046 - Chromium Compounds	2. Total Percent Efficiency of Control:							
3.	Potential Emissions: lb/hour to	ons/year	4. Lin	nthetically nited? Yes	Г No				
5.	5. Range of Estimated Fugitive Emissions (as applicable): to tons/year								
6.	Emission Factor:			7. Emis	sions Method Code:				
	Reference:								
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselin From:	ne 24-mo	onth Period To					
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years							
10.	Calculation of Emissions:								
11.	Pollutant Potential, Fugitive, and Actual Emissic Limited to 10 ppm as specification of used oil.	ons Commer	nt:						

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H106 - Hydrogen chloride (Hydrochloric acid)	2. Total Percent Efficiency of Control:						
3.	Potential Emissions: lb/hour to	ons/year	□ No	T-12				
5.	Range of Estimated Fugitive Emissions (as app to to	blicable): ons/year						
6.	Emission Factor:		• • •	7. E	Cmissic	ons Metho	od Code:	
	Reference:							
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselin From:						
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years						
10.	Calculation of Emissions:							
11.	Pollutant Potential, Fugitive, and Actual Emission	ons Commer	nt:					

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H107 - Hydrogen fluoride (Hydrofluoric acid)	2. Total Percent Efficiency of Control:							
3.	Potential Emissions: Ib/hour to	4. Synthetically Limited?					□ No		
5.	5. Range of Estimated Fugitive Emissions (as applicable): to tons/year								
6.	Emission Factor:				7.	Emiss	ions Method Code:		
	Reference:								
8.a.	. Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24	4-m	onth	Period To:	ı		
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years							
10.	Calculation of Emissions:								
11.	Pollutant Potential, Fugitive, and Actual Emission	ons Commer	nt:						

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions
Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.
Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: H150 - Polychlorinated biphenyls (Aroclors)	2. Total Percent Efficiency of Control:							
3.	Potential Emissions: Ib/hour	ons/year	4.	Li	nthe mited Yes		□ No		
5.	Range of Estimated Fugitive Emissions (as applicable): to tons/year								
6.	Emission Factor:				7.	Emiss	sions Method Code:		
	Reference:								
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselin From:	ne 24	4-m	onth	Period To			
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed M ears		itorir	ng Perio	od: 10 years		
10.	Calculation of Emissions:								
11.	Pollutant Potential, Fugitive, and Actual Emissic Limited to 50 ppm as specification of used oil	ons Commen	ıt:						

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: HAPS - Total Hazardous Air Pollutants	2. Total Percent Efficiency of Control:							
3.	Potential Emissions: lb/hour to	4. Syn Lin					□ No		
5.	5. Range of Estimated Fugitive Emissions (as applicable): to tons/year								
6.	Emission Factor:				7.	Emiss	ions Method Code:		
	Reference:								
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselin From:	ne 24	l-mo	nth	Period To			
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed M ears		torin	g Perio	od: 10 years		
10.	Calculation of Emissions:								
11.	Pollutant Potential, Fugitive, and Actual Emission	ons Commen	nt:						

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

ope	ration permit.							
1.	Pollutant Emitted: NOX - Nitrogen Oxides	 Total Percent Efficiency of Control: 60 						
3.	Potential Emissions: 988.33 lb/hour 4329 t	tons/year 4. Synthetically Limited?						
5.	Range of Estimated Fugitive Emissions (as app to t	plicable): ons/year						
6.	Emission Factor: .44 LB/MMBTU Reference: PERMIT			7. Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION.				
8.a	. Baseline Actual Emissions (if required): tons/year	8.b. Baseli From:		onth Period: To:				
9.a	Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years						
10.	Calculation of Emissions: 0.44 lb/mmbtu * 2246.2 mmbtu/hr = 988.33 lb/ton/yr	/hr; 988.3 lb	/hr * 876	0 hr/yr/2000 lb/ton = 4328.9				
11.	Pollutant Potential, Fugitive, and Actual Emissi	ons Comme	nt:					

Facility-wide NOx cap of 6,666 tpy; Emission factor based on Acid Rain permit average annual

rate. Potential emission rate with SNCR range from 0.41 to 0.25 lb/mmbtu.

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: (OTHER) assumed by applicant for other reasons (Explain in comment field)	2. Future Effective Date of Allowable Emissions:						
3.	Allowable Emissions and Units: .44 POUNDS PER MILLION BTU HEAT INPUT	4.	Equivalent Allowable Emissions: 988.33 lb/hour 4329 tons/year					
5.	Method of Compliance: Annual Average of CEM hourly data.							
6.	Allowable Emissions Comment (Description of Operating Method): Phase II NOx. There are no requirements to operate the proposed SNCR system. Source will operate the SNCR as needed to meet CAIR and CAMR.							

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: PB - Lead - Total (elemental lead and lead compounds)	2. Total Percent Efficiency of Control:							
3.	Potential Emissions: lb/hour to	ons/year	4. Lir	nthet nited Yes		□ No			
5.	5. Range of Estimated Fugitive Emissions (as applicable): to tons/year								
6.	Emission Factor:			7.	Emiss	ions Method Code:			
	Reference:								
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24-m	onth	Period To				
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed Moni ears	torin	g Perio	ód: 10 years			
10.	Calculation of Emissions:								
11.	Pollutant Potential, Fugitive, and Actual Emissi Limited to 100 ppm as specification of used oil		nt:						

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions
Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.
Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: PM - Particulate Matter - Total	 Total Percent Efficiency of Control: 98 					
3.	Potential Emissions: 224.6 lb/hour 1229.8 to	ons/year	4.	Lin	nthe nited Yes		
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year					
6.	Emission Factor: .125 LB/MMBTU Reference: PERMIT				7.	Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION.	
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselin From:	ne 2	4-m	onth	Period: To:	
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte			torin	ng Period: ☐ 10 years	
10.	0. Calculation of Emissions: lb/hr = 2246.2 mmBtu/hr*0.1 lb/mmBtu = 224.6lb/hr. TPY = 2246.2 mmBtu/hr*0.125 lb/mmBtu * 8760 hrs/yr/*1 ton/2000 lb = 1229.8 TPY						
11.	Pollutant Potential, Fugitive, and Actual Emission Emission factor based on 0.1 lb/MMBtu, 21 hoblowing).			e); 0.	3 lb	/MMBtu, 3 hours (soot-	

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

1.	Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:						
3.	Allowable Emissions and Units: .3 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 673.86 lb/hour 1229.8 tons/year						
5.	Method of Compliance: Test not required if operation < 400 hours/FFY.							
6.	Allowable Emissions Comment (Description of Operating Method): During the 3 hrs in any 24 hrs period allowed for boiler clearning(soot blowing) and load changing.							

Allowable Emissions Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2.	Future Effective Date of Allowable Emissions:					
3.	Allowable Emissions and Units: .1 POUNDS PER MILLION BTU HEAT INPUT	4.	Equivalent Allowable Emissions: 224.62 lb/hour 1229.8 tons/year					
5.	Method of Compliance: Test not required if operation < 400 hours/FFY							
6.	Allowable Emissions Comment (Description of During normal operations while firing coal.	fОр	erating Method):					

operation permit.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

1.	Pollutant Emitted: PM10 - Particulate Matter - PM10	2. Total P	erce	nt Ef	ffici	iency of Control:
3.	Potential Emissions: 224.6 lb/hour 1229.8 t	tons/year	4.	Syn Lim	iited	
5.	Range of Estimated Fugitive Emissions (as approximately to to	plicable): tons/year				
6.	Emission Factor: Reference:				7.	Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION.
8.a.	. Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24	1-mo	nth	Period: To:
9.a.	. Projected Actual Emissions (if required): tons/year	9.b. Projecte	ed M ears		orin	ng Period: □ 10 years
10.	Calculation of Emissions:					
11.	Pollutant Potential, Fugitive, and Actual Emiss. Assumed to be the same as PM.	ions Commer	nt:			

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions
Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.
Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: SO2 - Sulfur Dioxide	2. Total P	ercer	nt E	ffici	ency of	f Control:	
3.	Potential Emissions: 6064.74 lb/hour 26564 t	ons/year	4.	Lin	ithet nited Yes	-	₽ No	
5.	Range of Estimated Fugitive Emissions (as app to t	olicable): ons/year						
6.	Emission Factor: 2.7 LB/MMBTU Reference: PERMIT				7.	(0) EQUI EQUI ALLO EMIS	ions Method QUAL TO VALENT DWABLE SION/WOR ALLOWA SION.	RST-
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 24	-mc	nth	Period: To:		
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecte ☐ 5 y	ed M ears	onit	orin	g Perio	od: 10 years	
10.	Calculation of Emissions: 2.7 lb/mmbtu * 2246.2 mmbtu/hr = 6064.74 lb. 26564 ton/yr	/hr; 6064.74	lb/hr	* 8	760	hr/yr *	1/2000 lb/t	on =
11.	Pollutant Potential, Fugitive, and Actual Emissi Potential based on Unit 2 limit of 2.7 lb/mmbtu when both coal units on line.			to e	mit	at max	4.5 lb/mmb	tu

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: (OTHER) assumed by applicant for other reasons (Explain in comment field)	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units: 2.7 POUNDS PER MILLION BTU HEAT INPUT	4.	Equivalent Allowable Emissions: 6064.74 lb/hour 26564 tons/year		
5.	Method of Compliance: Daily 24 hour average based on CEM or FS&A	A. Se	e SC 12.		
6.	Allowable Emissions Comment (Description of Operating Method): Applicant request. 4.5 lbs/mmBtu for unit 1 and 2 combined.				

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1.	Pollutant Emitted: VOC - Volatile Organic Compounds	2. Total P	erce	ent l	Efficie	ncy of Control:
3.	Potential Emissions: 6.55 lb/hour 28.7 to	ons/year	4.	Li	nthetic mited? Yes	
5.	Range of Estimated Fugitive Emissions (as app to to	olicable): ons/year				
6.	Emission Factor: .07 LB/TON Reference: SCC]	Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP- 42/FIRE SYSTEM.
8.a.	Baseline Actual Emissions (if required): tons/year	8.b. Baselir From:	ne 2	4-n	onth P	eriod: To:
9.a.	Projected Actual Emissions (if required): tons/year	9.b. Projecto ☐ 5 y	ed M ears		itoring	Period: ☐ 10 years
10.	Calculation of Emissions: 0.07 lb/ton * 93.59 ton/hr = 6.55 lb/hr; 6.55 lb/h	hr * 8760 hr/	yr *	1/2	2000 It	o/ton = 28.7 tons/yr.
11.	Pollutant Potential, Fugitive, and Actual Emission	ons Commer	nt:			

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

<u>Visi</u>	ble Emissions Limitation: Visible Emissions	Limitation 1 of 2	
1.	Visible Emissions Subtype:	2. Basis for Allowal	ble Opacity:
	VE40 - VISIBLE EMISSIONS - 40% NORMAL OPACITY	▼ Rule	☐ Other
3.	Allowable Opacity:	- · · · · · · · · · · · · · · · · · · ·	
	Normal Conditions: 40% Excep	ptional Conditions:	%
	Maximum Period of Excess Opacity Allowed:		min/hour
4.	Method of Compliance:		
5.	Visible Emissions Comment: The Permittee elected to utilize a transmissome with the visible emissions limit.	eter (opacity meter) for	demonstrating compliance
<u>V</u> isi	ble Emissions Limitation: Visible Emissions	Limitation 2 of 2	
1.	Visible Emissions Subtype:	2. Basis for Allowal	ole Opacity:
	VE60 - VISIBLE EMISSIONS - 60% NORMAL OPACITY	₹ Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: % Excep	otional Conditions:	%
	Maximum Period of Excess Opacity Allowed:		min/hour
4.	Method of Compliance:		· · · · · · · · · · · · · · · · · · ·
5.	Visible Emissions Comment:		
	During the 3-hrs in any 24 hr period allowed for Test not required if operation < 400 hours/FFY	- ·	blowing) and load change.

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 5

1.	Parameter Code: CO2 - Carbon dioxide	2.	Pollutant(s)): _	
3.	CMS Requirement:	厂	Rule	☐ Other	
4.	Monitor Information Manufacturer: SIEMENS Model Number: ULTRAMAT 6E		N	Serial ND-886	
5.	Installation Date: 01-JUL-02	6.	Performanc 10-JUN-03	e Specification Test Date:	
7.	Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitor measure the diluent component of the SO2 and CO2 under 2-296.405(
	Status: Active				
<u>Con</u>	tinuous Monitoring System: Continuous Mon	nito	or 2 of 5		
1.	Parameter Code: EM - EMISSION	2.	Pollutant(s) SO2	:	
3.	CMS Requirement:	Г	Rule	☐ Other	
4.	Monitor Information Manufacturer: THERMO ENVIRONMENTAI Model Number: 43C	L	N	Serial 43C-72789-372 umber:	
5.	Installation Date: 01-JUL-02	6.	Performance 10-JUN-03	e Specification Test Date:	
7.	Continuous Monitor Comment: Unit has elected to install and operate CEM for SO2 in lieu of monitoring emissions using fuel sampling and analysis under rule 62-296.405(1)(f)1. Specific conditions from existing permit is enclosed.				
	Status: Active				

Cor	tinuous Monitoring System: Continuous Mo	nite	or 3 of 5	
1.	Parameter Code:	2.	Polluta	nt(s):
	VE - Visible emissions (opacity)			
3.	CMS Requirement:	▽	Rule	Other
4.	Monitor Information			
	Manufacturer: SPECTRUM			
	Model Number: SPEC41			Serial 1448000 1418002
	Number: SPEC41			Number: 1448000,1418002
5.	Installation Date:	6.	Perform	nance Specification Test Date:
	28-SEP-02		09-MA	-
7.	Continuous Monitor Comment:	•		
	Status: Active			
Con	tinuous Monitoring System: Continuous Mo	nite	r 4 of 5	
1.	Parameter Code:	2.	Polluta	nt(s):
	FLOW - Volumetric flow rate			
3.	CMS Requirement:	<u>\</u>	Rule	Other
4.	Monitor Information			"
	Manufacturer: SICK			
	Model Number: FLOWSIC107			Serial 478751, 47875
	Number: PLOWSIC107			Number: 478731, 47873
5.	Installation Date:	6.	Perform	nance Specification Test Date:
	01-JAN-01		10-JUN	1-03
7.	Continuous Monitor Comment:			
	Spectrum Systems Model 300 Dilution Monito			
	flow to calculate hourly emissions. CEM flow	mor	itors are	required under Title IV 40 CFR Part
	75.			
	Status: Active			

Continuous Monitoring System: Continuous Monitor 5 of 5 2. Pollutant(s): 1. Parameter Code: NOX **EM - EMISSION ▼** Rule ☐ Other CMS Requirement: 4. Monitor Information... Manufacturer: THERMO ENVIRONMENTAL Serial 42C-71476-368 Model Number: 42C Performance Specification Test Date: 6. Installation Date: 10-JUN-03 01-JUL-02 7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses Siemens and Teco analyzers to calculate unit NOx emission rate. CEM required under Title IV 40 CFR Part 75. Status: Active



I. EMISSIONS UNIT ADDITIONAL INFORMATION Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram (Required for all permit applications, except Title revision applications if this information was submitted to the department years and would not be altered as a result of the revision being sought) \(\subseteq \text{ Applicable} \subseteq \text{ Previously Submitted, Date:} \)	
2.	Fuel Analysis or Specification (Required for all permit applications, exception permit revision applications if this information was submitted to the department of the years and would not be altered as a result of the revision be Applicable Previously Submitted, Date:	artment within the
3.	Detailed Description of Control Equipment (Required for all permit appl air operation permit revision applications if this information was submitt within the previous five years and would not be altered as a result of the Applicable Previously Submitted, Date:	ed to the department
4.	Procedures for Startup and Shutdown (Required for all operation permit V air operation permit revision applications if this information was submitted within the previous five years and would not be altered as a result of the Applicable Previously Submitted, Date:	nitted to the department
5.	Operation and Maintenance Plan (Required for all permit applications, expermit revision applications if this information was submitted to the department of the years and would not be altered as a result of the revision be Applicable Previously Submitted, Date:	artment within the
6.	Compliance Demonstration Reports/Records Applicable Previously Submitted, Date: To Be Submitted, Date (if known): Previously Submitted Test Date(s)/Pollutants Tested: To be Submitted Test Date(s)/Pollutants Tested: Note: For FESOP applications, all required compliance demonstration resubmitted at the time of application. For Title V air operation permit application reports/records must be submitted at the time of application reports/records must be su	lications, all required
7.	compliance plan must be submitted at the time of application. Other Information Required by Rule or Statute ☐ Applicable	☐ Attachment

,	EPSAP	Submitted	Applicat

Additional Requirements for Title V Air Operation Permit Applications

1.	Identification of Applicable Requirements ✓ Applicable	✓ Attachment
2.	Compliance Assurance Monitoring Plan ☐ Applicable	
3.	Alternative Methods of Operation ✓ Applicable	

APPLICATION: SMITH SNCR CONSTRUCTION PERMIT (#1805-1) FACILITY: GULF POWER COMPANY (#0050014)

	Facility Attacl	nments		
Supplemental Item	Electronic File Name	Attachment Description	Electronic Document?	Date Uploaded
RULE APPLICABILITY ANALYSIS	DOCS-#262692-v1- Smith_Facility_list _EPADOC	Federal applicable rule list.	Yes	1/9/2008
->>	DOCS-#262695-v1- Smith_Facility_list _FDEP.DOC	State applicable rule list.	Yes	1/9/2008
	Emissions Unit A	ttachments		
Emissions Unit: 001	- BOILER NUMBER 1 - 1,944	.8 MMBTU/HOUR (PHASE	II ACID RAIN	1)
Supplemental Item	Electronic File Name	Attachment Description	Electronic Document?	Date Uploaded
ALTERNATIVE METHODS OF OPERATION	Smith 2 Methods.doc	Alternative Methods of Operation List.	Yes	1/4/2008
DETAILED DESCRIPTION OF CONTROL EQUIPMENT	Smith SNCR-HERT Process Design.doc	Smith SNCR Detail Control Description.	Yes	1/7/2008
IDENTIFICATION OF APPLICABLE REQUIREMENTS	DOCS-#262696-v2-Smith _Unit_001FDEP.DOC	State applicable rule list for Unit 1.	Yes	1/10/2008
->>	DOCS-#262697-v1-Smith Unit 001 - EPA.DOC	Federal applicable rule list for Unit 1.	Yes	1/9/2008
OTHER EMISSIONS UNIT INFORMATION	Smith SNCR Schedule.pdf	Smith SNCR Schedule.	Yes	1/4/2008
PROCEDURES FOR STARTUP AND SHUTDOWN	SMITH SNCR Startup _ Shutdown Procedures.doc	Smith SNCR Startup and Shutdown Procedures.	Yes	1/7/2008
Emissions Unit: 002	- BOILER NUMBER 2 - 2,246	.2 MMBTU/HOUR (PHASE	II ACID RAIN	1)
Supplemental Item	Electronic File Name	Attachment Description	Electronic Document?	Date Uploaded
ALTERNATIVE METHODS OF OPERATION	Smith 1 Methods.doc	Alternative Methods of Operation.	Yes	1/4/2008
DETAILED DESCRIPTION OF CONTROL EQUIPMENT	Smith SNCR-HERT Process Design.doc	Smith SNCR Design Information.	Yes	1/7/2008
IDENTIFICATION OF APPLICABLE REQUIREMENTS	DOCS-#262698-v1-Smith _Unit_002FDEP.DOC	State applicable rule list for Unit 2.	Yes	1/10/2008
->>	DOCS-#262699-v1-Smith Unit_002 EPA.DOC	Federal applicable rule list for Unit 2.	Yes	1/9/2008
OTHER EMISSIONS UNIT	Smith SNCR Schedule.pdf	Smith SNCR Schedule.	Yes	1/4/2008
PROCEDURES FOR STARTUP AND SHUTDOWN	SMITH SNCR Startup _ Shutdown Procedures.doc	Smith SNCR Startup and Shutdown Procedures.	Yes	1/7/2008
	Report Completed as of: 1/17/	2008 12:59:50 PM		

AHachments NAILABLE VIA EPSAP. Elyabolh