TAMPA ELECTRIC

BIG BEND STATION

TITLE V
OPERATING
PERMIT APPLICATION

VOLUME I

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ADDENDUM

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BIG BEND STATION
TITLE V AIR OPERATION PERMIT APPLICATION RESPONSES

Combustion Sources

FDEP Question 1:

On the Segment (Process/Fuel) Information part of the application for Steam Generator Units Nos. 1-4, the Segment Comment field states that the "Btu per SCC unit value (Field 9) based on average fuel heat content of 11,000 Btu/lb." Is this the average heat input of all the coal fired, or the average heat input of all the coal and petcoke/coal blend combined? Why is this heat content lower than the minimum heat content shown in fuel analyses submitted? Please submit a separate Segment (Process/Fuel) Information form for each type of solid fuel as required by DEP Form No. 62-210.900(1)-Instructions.

TEC Response:

A nominal coal heat content of 11,000 Btu/lb was utilized in calculating Section III.D. Segment (Process/Fuel) Information for Steam Generating Units Nos. 1 through 4. The heat content of the as-received coal will vary from shipment to shipment. The typical coal analysis provided in Doc. III.I.2 contains data for a single coal sample and does not represent minimum or maximum values.

Section III.D. Segment (Process/Fuel) Information has been revised to include data for: (a) coal and (b) coal/petroleum coke blend solid fuels for Steam Generating Units Nos. 3 and 4. Segment information for the coal/petroleum coke blend solid fuel was based on a 80/20 weight percent blend of coal/petroleum coke on an as-received basis and nominal heat contents of 11,000 and 13,750 Btu/lb for coal and petroleum coke, respectively. These nominal heat content values were used to estimate the maximum fuel usage rates, as requested by Section III.D., Segment (Process/Fuel) Information.

Section III.D. Segment (Process/Fuel) Information has been revised for Steam Generating Units Nos. 1 and 2 to indicate that the only solid fuel burned is coal. The Title V Air Operation Permit will be revised to address petroleum coke if and when TEC submits and FDEP approves an air construction permit application to burn coal/petroleum coke blend in these units.

FDEP Question 2:

a) Where in the process is the coal sampled for analysis? b) Where in the process is the petroleum coke/coal blend sampled for analysis? c) What is the frequency of sampling and analysis? d) Please explain why the petcoke/coal blend fuel analyses parameters list Sulfur in coal, and BTU in coal, etc., but make no mention of the petroleum coke or a blend.

TEC Response:

a) Coal samples are collected in the tripper room.

b) Petroleum coke/coal blend samples are collected in the tripper room.

c) Composite samples are collected during bunkering. The composite samples are analyzed once per day.

d) Historically, the analytical report sheets use the term "coal" for TEC fuel analyses. This terminology remains in use regardless of whether the fuel is coal, petroleum coke, or a blend of these two fuels.

FDEP Question 3:

Although the application states that No. 2 fuel oil is used for ignition during start-up for Steam Generator Units No. 1, No. 2, No. 3 and No. 4, the firing of No. 2 fuel oil is not addressed in current operation permits for these units. Please submit the Segment (Process/Fuel) Information for fuel oil for these emission units as required by DEP Form No. 62-210.900(1)-Instructions.

TEC Response:

Section III.D. Segment (Process/Fuel) Information has been revised for Steam Generating Units Nos. 1 through 4 to include data for No 2. fuel oil used for ignition during startup.

FDEP Question 4:

Although the application states that solid fuels may be supplemented with used oil for Steam Generator Units No. 1, No. 2, No. 3 and No. 4, the firing of used oil is not addressed in current operation permits for these units. a) Is this "on-spec" used oil? b) Please submit the Segment (Process/Fuel) Information for used oil for these emission units as required by DEP Form No. 62-210.900(1)-Instructions.

TEC Response:

a) TEC currently burns only "on-spec" used oil within our system.

b) Used oil is not currently burned at Big Bend Station. However, TEC has included used oil combustion information on the Segment (Process/Fuel) Information sheets for Steam Generating Units Nos. 1 through 4 to retain operational flexibility.

FDEP Question 5:

Due to the fact that the Segment (Process/Fuel) Information for Steam Generation Units Nos. 1-4 was not submitted for any liquid fuel/waste fired, and there was no differentiation made

between coal and the petroleum coke/coal blend, please confirm that all pollutant emissions are at their maximum when coal is fired and that is the data which has been submitted in the application. If this is not true, please change the pollutant emission data to reflect the worst-case scenario fuel/fuel combination.

TEC Response:

Coal is the worst-case fuel with respect to the Section III.E. Pollutant Information provided for Steam Generating Units Nos. 1 through 4 for the emission-limited pollutants. The coal/petroleum coke blend combusted in Steam Generating Units Nos. 3 and 4 does not alter the list of pollutants shown as "NS", i.e., pollutants not emissions-limited nor subject to any work practice standard.

FDEP Question 6:

In the application, TEC's requested Methods of Compliance for SO_2 emissions limitations from the Steam Generators are as follows:

Unit Nos. 1, 2, or 3:	**weekly composite fuel sampling and fuel analysis or continuous emission monitoring; deletion of current requirement for annual stack testing**
Units Nos. 1, 2, and 3, total group:	**daily composite fuel sampling and analysis; deletion of current requirement for annual stack testing**

In order to determine if an Alternate Sampling Procedure review is required, please answer the following questions. a) Is the fuel to be sampled and analyzed for calorific value? b) Is fuel sampling only to be used when the continuous monitor is not functional? c) Why is TEC not requesting to determine compliance with the total group emission limits by means of continuous emission monitoring? d) Is the monitoring equipment and procedure consistent with the requirements of 40 CFR 60 Appendix A Method 6C? e) Is TEC proposing continuous compliance while using the continuous SO_2 monitor?

TEC Response:

As a point of clarification, Steam Generating Units Nos. 1 through 3 currently demonstrate compliance with SO_2 limits by fuel analysis and stack sampling. In the Title V Air Operation Permit application, TEC proposed to delete the annual stack testing requirement. The proposed method of compliance is either fuel analysis or continuous emissions monitoring system (CEMS).

At this time, TEC is still reviewing CEMS implementation, including the methodology to be used to demonstrate compliance with the Steam Generating Units Nos. 1 through 3 cap and individual unit limits using a common monitor. TEC included using CEMS as a compliance method in our Title V

Air Operation Permit application because of the possibility that CEMS could be in use as a compliance tool by the time the Title V Air Operation Permit is issued.

With respect to the Department's specific questions, TEC offers the following comments:

a) If TEC opts to demonstrate compliance by fuel sampling, the fuel will continue to be sampled and analyzed for calorific value.

b) As stated above, TEC proposes fuel sampling or CEMS as our method of compliance.

c) Upon opting to use CEMS as the compliance method for Steam Generating Units Nos. 1 through 3, TEC will apply this method for both the individual units and the total group. This compliance option was inadvertently omitted from the Section III.E. Pollutant Information sheets for Steam Generating Units Nos. 1 through 3. The cited sheets have been updated appropriately.

d) All CEM equipment meets the criteria of Part 75 of the Acid Rain Program, as required.

e) If TEC opts to demonstrate SO_2 compliance using CEMS, the compliance demonstration will be continuous, consistent with all applicable regulations and guidelines such as monitor downtime, excess emissions provisions, etc.

FDEP Question 7:

Though not listed as such in the application, Rule 1-3.63(c), Rules of the Environmental Protection Commission of Hillsborough County, may be an applicable requirement for Units No. 1-4. This rule limits emissions from fossil fuel steam generators to 1.1 pounds SO2 per million Btu heat input when liquid fuel is burned. Please provide assurance as to how this limit will be met in each unit if it applies to the facility. If it does not apply, please explain why.

TEC Response:

The fuel oil received at Big Bend Station is less than 1 percent sulfur by weight. TEC maintains fuel analysis records for these deliveries to demonstrate compliance.

FDEP Question 8:

Please clarify the following stack information provided in the application: a) For the nonintegrated mode, where is the SO2 emissions sampling port for Steam Generator Unit No. 3? b) Why does Stack #3 include a recirculation duct and why is this not shown on the DOCUMENT II.D.3.G., OVERALL BOILER PROCESS FLOW DIAGRAM, and the BOILER NO. 4 TEST LOCATION - FIGURE 1? c) Why does the BOILER NO. 3 TEST LOCATION - FIGURE 1 show two ESP outlets to the stack and no FGD outlet? d) Based on DOCUMENT II.D.2.C., COMBUSTION EMISSION SOURCES, and DOCUMENT II.D.2.A., BIG BEND STATION EMISSION SOURCE IDENTIFICATION KEY SHEET, Combustion Sources CS-003 and CS-004 have separate and distinct emission points (stacks). How can this

be true for the integrated mode? Please revise these documents with notations about the integrated mode. e) Please provide a diagram of the Unit No. 3 integrated mode particulate emissions stack (duct) sampling location. f) Is the particulate sampling location shown in BOILER NO. 4 TEST LOCATION - FIGURE 1 the sampling location for the Boiler No. 4 in the integrated mode as well as the non-integrated mode?

TEC Response:

a) In the nonintegrated mode, Steam Generating Unit No. 3 exhausts through stack CS-003 (also referenced as Stack #2 in TEC's 40 CFR Part 75 CEMS Monitoring Plan) and Steam Generating Unit No. 4 exhausts through stack CS-004 (also referenced as Stack #3 in TEC's 40 CFR Part 75 CEMS Monitoring Plan) as shown on Document II.D.3.H. Stack CS-003 (Stack #2) is equipped with a SO_2 CEMS. Specific locations of the CEMS sample probe and manual test ports are provided in the 40 CFR Part 75 CEMS Monitoring Plan. A copy of stack CS-003 (Stack #2) CEMS plan and elevation views is provided in Attachment 1.

b) Document II.D.3.G. is an overall simplified process flow diagram for Steam Generating Units Nos. 1 through 4 and was not intended to show individual exhaust ducts. Document II.D.3.H., which provides further process details, has been revised to show the stack CS-004 (Stack #3) pressure equalization duct. This duct is not used for flue gas recirculation. Instead, in the integrated mode, this duct is designed to ensure that process gas flows from the Steam Generating Unit No. 3 electrostatic precipitator (ESP) to the inlet of the FGD scrubber by preventing duct over pressurization.. The pressure equalization duct is not shown on Figure 1, Boiler 4 Test Location Traverse Points, because this duct is located upstream of the FGD outlet duct indicated on Figure 1; i.e., the pressure equalization duct runs from stack CS-004 (Stack #3) to the inlet *of the FGD system. The purpose of Figure 1 is to provide information pertaining to manual stack test locations. Process flow information is provided on Documents II.D.3.G. and II.D.3.H.*

c) *Figure 1, Boiler 3 Test Location Traverse Points, included in Document III.I.4. was prepared prior to the Unit No. 3 integration project and therefore does not show the FGD outlet duct. The FGD outlet duct enters stack CS-003 (Stack #2) upstream of the sampling platform. An additional figure for Boiler 3 showing the FGD outlet duct has been added to Document III.I.4.*

d) Documents II.D.2.C. and II.D.2.A. have been revised to include a note explaining the use of stacks CS-003 (Stack #2) and CS-004 (Stack #3) during Steam Generating Unit No. 3 operation in the flue gas integration mode.

e) *As specified in Specific Condition No. 20 of FDEP Operation Permit AO29-179911 (as amended on May 12, 1995), all testing requirements for Unit No. 3 apply to operation in the nonintegrated mode. To conduct such testing without having to switch Steam Generating Unit No. 3 to the nonintegrated mode, testing of Steam Generating Unit 3 for particulate emissions is conducted in the duct following Steam Generating Unit No. 3 ESP and prior to the FGD system. A diagram showing this duct testing location has been added to Document III.I.4.*

f) Because Steam Generating Unit No. 4 is subject to NSPS Subpart Da, testing of Steam Generating Unit No. 4 particulate matter emissions is performed only during the nonintegration mode of operation. The particulate matter sampling location provided on Document III.I.4., Figure 1, Boiler 4 Test Location Traverse Points, is applicable for the nonintegrated mode of operation.

FDEP Question 9:

Deletion of current annual visible emissions testing using EPA or FDEP Reference Method 9 was requested for Steam Generator Units 3 and 4 in the application. Is TEC proposing continuous, compliance while using the continuous opacity monitors? Is continuous compliance being proposed for Unit 3 while it is operating in the non-integrated mode?

TEC Response:

TEC currently has continuous opacity monitor systems (COMS) installed on both Steam Generating Units Nos. 3 and 4. In addition, TEC is currently required to annually perform a visible emission test on each unit. During the Title V permitting process, TEC evaluated permit conditions to identify any streamlining potential and to eliminate redundancy of permit requirements. In this instance, annual VE testing is not warranted. Therefore, TEC proposes to use the COMS for continuing compliance with opacity standards in accordance with the Department's regulations and guidelines. The Steam Generating Unit No. 3 COMS will be used in both the integrated and non-integrated modes of operation.

FDEP Question 10:

The Big Bend Station is located in an area of influence of a particulate matter air quality maintenance area. Therefore, the fossil fuel steam generators which have not received a PSD or New Source Review permit must comply with section 62-296.700, Reasonably Available Control Technology (RACT) Particulate Matter, F.A.C. Please provide the following information for Steam Generator Unit Nos. 1, 2, and 3: maximum dry standard volumetric flow rate, moisture content of gas stream that is emitted, and an operation and maintenance plan as described in Rule 62-296.700(6), F.A.C.

TEC Response:

The maximum dry standard volumetric flow rate and the moisture content of the gas stream for Steam Generator Units 1, 2, and 3 are provided in the revised Title V Air Operation Permit application on the Emission Point (Stack/Vent) Information sheet for each of the cited units. The requested operation and maintenance plans are provided in Document III.I.7 of the revised Title V Operation Permit application.

FDEP Question 11:

Recent information provided in EPA's final interim report on HAP emissions from fossil fuel-fired electric utility steam generating Units, indicates that a large amount of hydrogen

fluoride (and, therefore, total fluorides) may be emitted from the Big Bend Station. By not listing total fluorides as a pollutant in the Facility Pollutant Information section of the application as required by 62213.420(3)(c), F.A.C., is TEC stating that the Big Bend Station emits or has the potential to emit less than 100 tons of total fluorides per year? What is the basis of this assumption?

TEC Response:

In accordance with the FDEP Title V permit application directions for Section II.C., Facility Pollutants (see Page 18 of the instructions), regulated pollutants having emissions of 100 tons per year (tpy) must be reported. As indicated in the instructions, regulated pollutants "means any pollutant to which an emissions limitation or work practice standard applies at one or more emissions units within the facility under any applicable requirement or pursuant to the facility's most recent air operation permit". Fluorides - Total (Pollutant Identification Code FL) is not a regulated pollutant under this definition (i.e., the Big Bend Station emission units do not have any emission limitations for total fluorides) and does not trigger the 100 tpy threshold. On this basis, total fluorides was not included in Section II.C., Facility Pollutants.

A review of facility emission estimates for selenium (Se, Pollutant Code H162) indicates that total facility emissions are less than the 10 tpy major source threshold for any single HAP. Section II. C., Facility Pollutants, has therefore been revised to delete selenium.

FDEP Question 12:

a) By not listing total hazardous air pollutants (HAPS) as a pollutant in the Facility Pollutant Information section of the application is TEC stating that the Big Bend Station emits or has the potential to emit less than 25 tons of HAPS per year? What is the basis for this assumption? b) Based on reported lead emissions alone, the facility emits or has the potential to emit more than 25 tons per year of HAPS and each of the four steam generator units emits more than 2500 pounds per year. Why are HAPS not identified as a pollutant for the facility and each of the steam generator units? c) Were the amounts of HAP emissions generated from the burning of petcoke considered when the potential HAP emissions were identified for the steam generator units and total facility? d) Is the petcoke received from only one source? What reasonable assurance can be given that the petcoke is analyzed to the extent to verify that no major amounts of individual HAPs will be emitted from the facility, other than those already listed in the application?

TEC Response:

a) *Total hazardous air pollutants were inadvertently omitted from the facility pollutants section. Section II.C., Facility Pollutants, has been revised to include Total Hazardous Air Pollutants (Identification Code HAPS) as a major pollutant (Pollutant Classification Code A).*

b) Total hazardous air pollutants were inadvertently omitted from the cited emissions units pollutants identification sections. Section III.E., Emissions Unit Pollutant Information, has been

revised to include Total Hazardous Air Pollutants (Identification Code HAPS) as a pollutant not emissions-limited nor subject to any work practice standard (Pollutant Regulatory Code NS) for Steam Generating Units Nos. 1 through 4. Section III.A., emissions unit comment field, has been revised to include Total Hazardous Air Pollutants (Identification Code HAPS) as a pollutant not emissions-limited nor subject to any work practice standard (Pollutant Regulatory Code NS) for Combustion Turbine Units Nos. 1, 2, and 3.

A review of facility emission estimates for selenium (Se, Pollutant Code H162) indicates that total facility emissions are less than the 10 tpy major source threshold for any single HAP. Section III. E, Pollutant Emission comment field (Field 11) has been revised to delete selenium for Steam Generating Units Nos. 1, 2, and 3.

c) Monitoring of solid fuels for arsenic, beryllium, cadmium, chromium, lead, mercury, and selenium was conducted during the Steam Generating Units Nos. 3 and 4 petroleum coke test burns as required by the FDEP test burn authorizations. With the exception of nickel, coal combustion represents worst-case HAP emissions; i.e., the use of petroleum coke will result in comparable or lower emission rates for the remaining HAPs of concern. Petroleum coke HAP emissions were considered in identifying specific HAPs in Section II.C. for the Big Bend Station facility and in Section III.E. for individual emissions units (i.e., Steam Generating Units Nos. 3 and 4).

d) Petroleum coke may be received from a variety of suppliers. As required by the existing air permits, TEC has submitted and will continue to submit data demonstrating that the use of petroleum coke did not result in an emission increase annually for a period of five years from the dates that Steam Generating Units Nos. 3 and 4 began firing petroleum coke.

<u>FDEP Question 13</u>:

Rule 62-213.420(3)(c), F.A.C., states that each Title V source that emits or has the potential to emit any hazardous air pollutant or total hazardous air pollutants in a major amount (5 tons per year for lead, 10 tons per year for any other hazardous air pollutant, 25 tons per year for total hazardous air pollutants) must identify, for each emissions unit, each such pollutant which the applicant knows or has reason to believe would be emitted in an amount equal to or greater than 1,000 pounds per year for each individual hazardous air pollutant (HAP) or 2,500 pounds per year for total hazardous air pollutants QIAPS). a) By not listing lead as a pollutant in the Facility Pollutant Information section of the application, is TEC stating that the Big Bend Station emits or has the potential to emit less than 5 tons of lead per year? What is the basis of this assumption? b) If the facility does not exceed this major source threshold for lead, why are the lead emissions for each unit identified in the emissions units Pollutant Information sections? {Note: In the Annual Operating Report for 1995, TEC reported annual lead emissions of 32.5 tons for the facility.} c) By not listing arsenic compounds, chromium compounds, or manganese compound as a pollutant in the Facility Pollutant Information section of the application, is TEC stating that the Big Bend Station emits or has the potential to emit less than 10 tons each of arsenic compounds, chromium compounds, and manganese compounds per year? What is the basis for this assumption? d) Based on emission factors from AP-42 Table 1.1-13 (1/95), the facility emits or has the potential to emit as much arsenic

compounds, chromium compounds, or manganese compounds as it does lead. Why are arsenic, chromium, and manganese compounds not identified as pollutants for the facility and each of the steam generator units?

TEC Response:

As TEC understands the FDEP application instructions, emission calculation support is not required for emissions less than specified thresholds. The emissions cited by FDEP in this question meet this criteria. However, to expedite the permitting process, TEC is providing the requested information.

a) Facility lead emissions are estimated to be below five tpy and were not included in Section II.C., Facility Pollutants. Note that Steam Generating Units Nos. 1 through 4 are each equipped with ESPs for control of particulate matter. Steam Generating Unit No. 4 is also equipped with an FGD control system. Use of these control systems is a federally enforceable requirement. A summary of facility lead emission estimates is provided in the following table:

Table A. Lead Emission Estimates

Unit	*Heat Input (MMBtu/hr)*	*Pollutant*	*Emission Factor (lb/MMBtu)*	*Emission Rate (ton/yr)*
CS-1	*4,037*	*Pb*	*1.77e-05*	*0.313*
CS-2	*3,996*	*Pb*	*1.77e-05*	*0.310*
CS-3	*4,115*	*Pb*	*1.77e-05*	*0.319*
CS-4	*4,330*	*Pb*	*6.75e-06*	*0.128*
CT-1	*173*	*Pb*	*5.80e-05*	*0.044*
CT-2	*950*	*Pb*	*5.80e-05*	*0.241*
CT-3	*950*	*Pb*	*5.80e-05*	*0.241*
Totals		***Pb***	***N/A***	***1.596***

The emission factors for CS-1 through CS-4 are based on a coal lead content of 8.4 ppmw. The methodology used in determining trace metal emission factors for coal combustion was provided by the Florida Electric Power Coordinating Group (FCG) to the FDEP (Mr. Howard L. Rhodes) in correspondence dated April 28, 1995. The FCG coal combustion trace metal emission estimation methodology is based primarily on the Electric Power Research Institute's (EPRI) Electric Utility Trace Substances Synthesis Report dated November 1994. Emission factors for distillate fuel oil combustion (CT-1 through CT-3) were obtained from Table 3.1.7, AP-42, January 1995. Use of the EPRI emission estimation procedures, which are based on empirical data, and AP-42 emission factors represents a reasonable approach in estimating emission rates of non-regulated pollutants (i.e., pollutants not emissions-limited nor subject to any work practice standard) with respect to the Title V permit program.

b) Lead is identified as a pollutant for Emissions Units 1, 2, and 3 because potential lead emissions from each of these units is greater than the 500 lb/yr emission unit reporting threshold cited in the FDEP instruction document. This instruction does not provide for omitting lead from the emission unit-specific list of pollutants if the facility is not major for lead, as is the case for Big Bend Station. Lead emission estimates are less than 500 pounds per year (0.25 tpy) for Steam Generating Unit No. 4. Section III.E, Pollutant Information comment field (Field 11) has therefore been revised to delete lead for Steam Generating Unit No. 4.

c & d) Emission rates of arsenic, chromium, and manganese compounds were estimated using the FCG procedures as described above for coal combustion (CS-1 through CS-4) and AP-42 for distillate fuel oil combustion (CT-1 through CT-3). Arsenic, chromium, and manganese emission factors for CS-1 through CS-4 are based on coal contents of 11, 28, and 30 ppmw, respectively. Summaries of facility arsenic, chromium, and manganese emission estimates are provided in the following tables:

Table B. Arsenic Emission Estimates

Unit	Heat Input (MMBtu/hr)	Pollutant	Emission Factor (lb/MMBtu)	Emission Rate (ton/yr)
CS-1	4,037	As	2.25e-05	0.397
CS-2	3,996	As	2.25e-05	0.393
CS-3	4,115	As	2.25e-05	0.405
CS-4	4,330	As	8.07e-06	0.153
CT-1	173	As	4.90e-06	0.004
CT-2	950	As	4.90e-06	0.020
CT-3	950	As	4.90e-06	0.020
Totals		**As**	**N/A**	**1.393**

Table C. Chromium Emission Estimates

Unit	Heat Input (MMBtu/hr)	Pollutant	Emission Factor (lb/MMBtu)	Emission Rate (ton/yr)
CS-1	4,037	Cr	2.46e-05	0.435
CS-2	3,996	Cr	2.46e-05	0.430
CS-3	4,115	Cr	2.46e-05	0.443
CS-4	4,330	Cr	1.22e-05	0.232
CT-1	173	Cr	4.70e-05	0.036
CT-2	950	Cr	4.70e-05	0.196

Unit	Heat Input (MMBtu/hr)	Pollutant	Emission Factor (lb/MMBtu)	Emission Rate (ton/yr)
CT-3	950	Cr	4.70e-05	0.196
Totals		**Cr**	**N/A**	**1.966**

Table D. Manganese Emission Estimates

Unit	Heat Input (MMBtu/hr)	Pollutant	Emission Factor (lb/MMBtu)	Emission Rate (ton/yr)
CS-1	4,037	Mn	2.81e-05	0.497
CS-2	3,996	Mn	2.81e-05	0.491
CS-3	4,115	Mn	2.81e-05	0.506
CS-4	4,330	Mn	1.36e-05	0.259
CT-1	173	Mn	3.40e-04	0.258
CT-2	950	Mn	3.40e-04	1.415
CT-3	950	Mn	3.40e-04	1.415
Totals		**Mn**	**N/A**	**4.840**

As shown above, facility emissions of lead are less than 5 tpy and facility emissions of arsenic, chromium, and manganese are each less than 10 tpy. These pollutants are not required to be addressed in either Section II.C., Facility Pollutants, or Section III.E., Emission Unit Pollutant Information.

<u>FDEP Question 14</u>:

The following hazardous air pollutants are listed in the application as being emitted from:

Steam Generator Units No. 1 and 2 - Pb, HCI, HF, Ni, and Se;
Steam Generator Unit No. 3 - Pb, HCI, HF, Mn, Ni, and Se;
Steam Generator Unit No. 4 - Pb, HCI, and HF;
Combustion Turbine No. 1 - HCI;
Combustion Turbine No. 2 - HC1, HF, and Ni;
Combustion Turbine No. 3 - HCI, and Mn.

a) Why does Steam Generator Unit No. 4 not emit 1,000 pounds or more per year each of Se and Ni, when Units 1, 2 and 3 do?

b) Why does Combustion Turbine No. 2 emit 1,000 pounds or more per year each of HF and Ni, when Combustion Turbines No. 1 and No. 3 do not?

c) Why does Combustion Turbine No. 3 emit 1,000 pounds or more per year of Mn, when Combustion Turbines No. 1 and No. 2 do not?

d) Why does Steam Generator No. 3 emit 1,000 pounds or more per year of Mn, when Steam Generators Nos. 1, 2 and 4 do not?

TEC Response:

a) Steam Generating Unit No. 4 is equipped with ESP and FGD control systems. Emission rates of trace metals are therefore lower for Steam Generating Unit No.4 in comparison to Steam Generating Units Nos. 1, 2, and 3, which are equipped with ESP control systems but not equipped with FGD control systems.

b) Combustion Turbines No. 1, 2, and 3 each emit 1,000 pounds per year or more of hydrogen fluoride (HF - Pollutant Code H107) and nickel (Ni - Pollutant Code H133). Nickel was inadvertently omitted from the Combustion Turbine No. 1 emissions unit pollutant information section. Section III.A. emissions unit comment field (Field 11) for Combustion Turbine No. 1 has been revised to include nickel with a pollutant regulatory code of NS; i.e., pollutant not emissions-limited nor subject to any work practice standard. The initial Title V permit application indicated that Combustion Turbines Nos. 1, 2, and 3 each emit 1,000 pounds per year or more of hydrogen fluoride and that Combustion Turbines Nos. 2 and 3 each emit 1,000 pounds per year or more of nickel - reference Section III.A, emissions unit comment field (Field 11) for each turbine.

c) As noted in our response to Question 13, facility emissions of manganese (Mn - Pollutant Code H113) are less than 10 tpy. Addressing this pollutant is not required in either Section II.C., Facility Pollutants, or Section III.E., Emission Unit Pollutant Information. The Section III.A. Emissions Unit comment field (Field 11) for Combustion Turbine No. 3 has been revised to delete Manganese.

d*) As noted in our response to Question 13, facility emissions of manganese (Mn - Pollutant Code H113) are less than 10 tpy. Addressing this pollutant is not required in either Section II.C., Facility Pollutants, or Section III.E., Emission Unit Pollutant Information. The Section III.E. Emissions Unit Pollutant Information comment field (Field 11) for Steam Generating Unit No. 3 has been revised to delete manganese.*

FDEP Question 15:

Please provide the following additional information about control devices/methods: a) If TEC is adding ammonia to the flue gas from Unit No. 4, ammonia injection should be listed as a control device/method and a detailed description of the process should be submitted. b) If Stack #3 includes a recirculation duct to return exhaust gas to the inlet of the FGD scrubber, Flue Gas Recirculation should be listed as a control device/method and a detailed description of the process should be submitted. c) Please explain why, and in what quantities, TEC is adding S03 to the flue gases from Units Nos. 1-3, and quantify the effect on emissions. d) Is the S03 purchased or is it created on-site?

TEC Response:

a) Ammonia is injected into the Steam Generating Unit No.4 flue gas only to control duct corrosion. Because ammonia injection is not used as a pollution control method, ammonia process information has not been provided.

b) The referenced duct is not a recirculation device, but instead serves as a pressure equalization device within the flue system. Flue gas recirculation is not a control device/method in use at Big Bend Station.

c) Sulfur trioxide (SO_3) is added to the Steam Generating Units Nos. 1, 2, and 3 flue gas prior to the ESP. The SO_3 serves as a flue gas conditioner to enhance ESP performance. This SO_3 is emitted from the emissions units stacks as part of the combustion gas stream. The Pollutant Information section (Section E) for these emissions units includes sulfuric acid mist (SAM). The small amount of flue gas conditioning SAM was included with the fuel-generated SAM for the Title V Air Operation Permit application.

d) The SO_3 is generated on site from molten sulfur. SO_3 is not used for any other purpose at Big Bend Station.

FDEP Question 16:

In the Emission Inventory Worksheet for Unit No. 3 on page CS-003 of Appendix C, how was the NOX potential emission rate calculated to be 3,154.1 tpy? Should this not be 12,616.6 tpy as shown on the Appendix B Emission Rate Summary sheet?

TEC Response:

The annual NO_x emission rate shown on Emission Inventory Worksheet for Steam Generating Unit No. 3 (CS-003) in Appendix C has been corrected to show 12,616.6 tpy.

FDEP Question 17:

In the Emission Inventory Worksheet for Unit No. 4 on page CS-004 of Appendix C, and on the Appendix B Emission Rate Summary sheet, the CO potential emission rates are listed as 125.6 lb/hr and 550 tpy. However, Permit No. PSD-FL-040 (October 9, 1985 Modification) limits the CO emissions to 124 lb/hr, which equates to 543 tpy. Please correct these emissions numbers.

TEC Response:

The October 9, 1985, modification to Permit No. PSD-FL-040 changed the CO emission limits from 0.014 lb/MMBtu and 61 lb/hr to 0.029 lb/MMBtu and 124 lb/hr. The October 9, 1985, permit modification also lists a heat input value of 4,330 MMBtu/hr for Unit No. 4. This heat input value was confirmed in EPA's July 11, 1988, modification to Permit No. PSD-FL-040. The hourly CO

emission rates are calculated based on heat input and the lb/MMBtu CO emission factor. The October 9, 1985, permit amendment changed the CO emission factor from 0.014 to 0.029 lb/MMBtu. The 124 lb/hr value indicated in the October 9, 1985, permit modification is believed to be a mathematical error because multiplying the 0.029 lb/MMBtu CO emission factor by the 4,330 MMBtu/hr heat input results in an hourly rate of 125.6 lb/hr. Note that the original CO emission limit of 61 lb/hr correctly corresponds to use of the original 0.014 lb/MMBtu CO emission factor and a heat input of 4,330 MMBtu/hr; i.e., these values yield an hourly rate of 60.6 lb/hr.

FDEP Question 18:

Is Steam Generator Unit No. 4 a tangentially fired boiler or a dry bottom wall-fired boiler? The Source Classification Code (SCC) listed in the application for Steam Generator Unit No. 4 is 1-01-002-02 which designates an Electric Generation External Combustion Boiler, Pulverized Coal: Dry Bottom (Bituminous Coal). However, if Unit No. 4 is tangentially fired (as stated elsewhere in the application and in the monitoring plan for Unit No. 4, the more appropriate SCC would be 1-01-002-12 which designates an Electric Generation External Combustion Boiler, Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal). Also, if it is tangentially fired, why is Unit No. 4 not listed in "Table 1 - Phase I Tangentially Fired Units," 40 CFR 76 Appendix A? Is this due to the fact that Unit No. 4 was not originally a Phase I Unit?

TEC Response:

Steam Generating Unit No.4 is a Combustion Engineering dry-bottom tangentially fired boiler. The most appropriate SCC code is 1-01-002-12. The Segment (Process/Fuel) Information sheet for this emissions unit has been revised to reflect the correct SCC designation. Steam Generating Unit No. 4 is designated a Phase II boiler. TEC elected to opt in Steam Generating Unit No. 4 during Phase I of the Acid Rain Program.

FDEP Question 19:

Though referenced in the Emissions Unit Supplemental Information sections for Steam Generator Units No. 2, 3, and 4, supplemental information section III.I.11, Alternative Modes of Operation (Emissions Trading), was not included with the application. Please explain.

TEC Response:

Section I, Alternative Methods of Operation (Emissions Trading), has been revised to be not applicable (NA) for Steam Generating Units Nos. 2, 3, and 4.

FDEP Question 20:

Facility Pollutant Detail Information was not provided. Please submit this section of the application to identify the multi-unit emissions caps. For example, there are multi-unit emissions caps for sulfur dioxide emissions from Steam Generator Units 1-3.

TEC Response:

Section II.C., Facility Pollutant Information, has been revised to include the existing multi-unit SO_2 emission caps for Steam Generating Units No. 1, 2, and 3.

Solid Fuel Handling

FDEP Question 21:

Please submit a separate Segment(Process/Fuel) Information form for each type of solid fuel as required by DEP Form No. 62-210.900(1)-Instructions. Please submit revisions to drawings and diagrams as needed. For example, if specific storage piles or conveyors are used for petroleum coke/coal blend fuel only, please indicate this on the drawings and diagrams.

TEC Response:

The entire fuel yard operation is used for both the handling of petroleum coke and coal. This approach maximizes the operating flexibility needed to handle fuel inventories and to maintain constant fuel reclaiming availability for generation requirements.

FDEP Question 22:

Particulate emissions estimates should be based on the solid fuel which has the potential to emit the most particulate matter. Which solid fuel has the potential to emit the most particulate matter when handled? Please submit documentation to support your conclusion.

TEC Response:

Particulate matter (PM_{10}) emission estimates from solid fuel handling were derived using the following equation from Section 13.2.4 - Aggregate Handling and Storage Piles, AP-42, Fifth Edition, July, 1995:

$$\text{Emission (lb/hr)} = 0.0011 \times \text{quantity transferred (tpy)} \times [\,(\text{average windspeed (mph)}/5)^{1.3}/\text{moisture content (\%)}/2^{1.4}] \times (100 - \text{control efficiency (\%)})/100$$

PM_{10} emissions from the solid fuel transfers were calculated using a maximum quantity transferred of 4,000 tons per hour, an average wind speed of 8.6 mph, and a minimum moisture content of 6.5 percent for all solid fuels. These criteria describe the highest potential to emit PM_{10}, regardless of the type of solid fuel being handled.

FDEP Question 23:

The Condition I.A.3. of the PA 79-12 Conditions of Certification (revised 6-2-81 and modified 9-13-95) states that particulate emissions from the coal handling facilities shall be controlled

by use of control devices. Within ten (10) working days after it became available, TEC was required to submit technical data pertaining to the selected particulate emissions control for the coal handling facility. This information was to include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters such as air/cloth ratio and flow rate. However, there is no mention of any control devices for the conveyors and transfer points in the Title V application. Please clarify what types of particulate controls are used for each of the solid fuel handling and storage sources FH-001 through FH-031, FH-036 through FH-047, FH-050 through FH-058, and FH-063 through FH-073.

TEC Response:

Particulate matter emission control devices are not employed with any fugitive emissions source in the fuel yard. Emission control techniques such as enclosures and chemical dust suppressant spray are used.

The Roto-Clones are point sources and listed in the application as FH-032 through FH-035, FH-048, FH-049, and FH-059 through FH-062. Please note that upon researching our response to this question, we discovered that FH-032 through FH-035, FH-048, and FH-049 were not identified under Emission Unit 11. The revised application has been updated with the appropriate segment pages and documentation.

FDEP Question 24:

Specific Condition No. 5.a. of Permit No. PSD-F-040 for Steam Generator Unit No. 4 requires that all conveyors and conveyor transfer points (except the coal handling stacker reclaimer, the tail end conveyor feeding tripper and the barge unloading belt) be enclosed to minimize fugitive emissions of particulate matter. a) Are there any vents or stacks associated with the enclosures? b) Which identification numbers in the application Document II.D.2.A. correspond to the coal handling stacker reclaimer and the tail end conveyor feeding tripper? c) Is conveyor belt CB-A1 moved to line up with a barge, or does the barge line up with CB-A1 to unload? Is conveyor belt CB-B1 moved to line up with CB-A1, or does CB-B1 stay in one place?

TEC Response:

a) Cyclone collectors are installed at certain solid fuel handling locations for PM_{10} emission control. These specific locations are the fuel blending bins (FH-032 through FH-035), the fuel crushers (FH-048 and FH-049), and the fuel bunkers (FH-059 through FH-062). One stack or vent is associated with each of these fuel handling points. No other stacks or vents are associated with the enclosures within the solid fuel handling emissions unit. These other enclosures release only fugitive emissions.

b) The north coal handling stacker/reclaimer and tail end conveyor feeder tripper operations encompass solid fuel handling locations FH-013 through FH-017. The south coal handling

stacker/reclaimer and tail end conveyor feeder tripper operations encompass solid fuel handling locations FH-022 through FH-025.

c) Conveyor belts CB-A1 and CB-B1 have a limited amount of mobility to allow the conveyor belts to be aligned with the solid fuel within a barge. This limited mobility expedites unloading operations.

FDEP Question 25:

The modified Conditions of Certification limit the maximum annual transloading of solid fuel to 4000 tons in Condition No. I.A.3.d. and 1,428,030 tons in Condition No. I.A.3e. We believe this is an error. Please contact Mr. Buck Oven in the Department's Power Plant Siting Office to arrange to have this condition revised in the Conditions of Certification.

TEC Response:

Thank you for pointing out this typographic error. TEC will contact Mr. Oven to correct this error.

FDEP Question 26:

The Conditions of Certification require that the annual quantity of solid fuel loaded by each transloading source/emission point be submitted to the EPCHC in an annual operating report. Please provide the required process rate information for each transloading source/emissions point by completing the appropriate application sections. At Big Bend Station, what annual quantities of fuels is TEC receiving, handling, blending, and/or shipping for the TEC Polk Power Generating Station?

TEC Response:

FDEP is correct in noting that the annual quantity of solid fuel loaded by each transloading source/emission point must be submitted to EPCHC in an annual operating report. TEC most recently submitted the required information to EPCHC in the 1996 Annual Operating Report. The requested information is provided in a Segment (Process/Fuel) Information sheet added to Emissions Unit 15 - Solid Fuel Handling and Storage Fugitives of the revised Title V Air Operation Permit application. At Big Bend Station, the maximum annual quantity of solid fuel transloaded is 1,428,030 tons.

FDEP Question 27:

The Big Bend Station is located in an area of influence of a particulate matter air quality maintenance area. Therefore, unless exempted by rule, materials handling, sizing, screening, crushing, and grinding operations are regulated by the particulate matter RACT requirements in Rule 62-296.711, F.A.C. In the application Table A-2, TEC states that RACT only applies to the conveyors to the blending bins [CH-032 through CH-035], and to the conveyors to the coal bunkers [CH-059 through CH-062], assuming that CH = FH in Document II.D.2.A. Is

TEC requesting that the other solid fuel handling equipment (other than the storage piles) be exempted from RACT? If so, on what basis?

TEC Response:

Particulate matter (PM) RACT applies to fuel blending bins (FH-032 through FH-035), the fuel crushers (FH-048 and FH-049), and the fuel bunkers (FH-059 through FH-062). All other solid fuel handling equipment are exempted from PM RACT for the following reason.

Under Rule 62-296.700(2)(d), F.A.C., any emissions unit of unconfined PM which is located more than 5 kilometers (km) outside the boundary of a PM air quality maintenance area is exempted from the PM RACT rules. Under Rule 62-210.200(297), F.A.C., an unconfined emission is an emission which escapes and becomes airborne from an unenclosed operation or which are emitted into the atmosphere without being conducted through a stack. Excluding the PM emission sources specifically cited above, the solid fuel handling emission sources are unconfined because the PM emissions are not conducted to the atmosphere through a stack. These emission sources are located more than 5 km from a PM air quality maintenance area (See map in Attachment A.) On this basis, these solid fuel handling emission sources meet the criteria of Rule 62-296.700(2)(d), F.A.C., and are exempt from PM RACT.

FDEP Question 28:

How many blending bins are there? Please describe how the petcoke/coal blend and the (approximately) 3.5% sulfur coal that are fired in Steam Generator Unit No. 4 kept segregated from the lower-sulfur coal that is fed to Steam Generator Units No. 1-3?

TEC Response:

Six blending bins exist. The various fuel types are stored within the fuel yard in a segregated manner. Fuel is reclaimed and bunkered into a preassigned blending bin as individual unit fuel requirements dictate.

FDEP Question 29:

In the application, Table A-1 "Summary, of Federal EPA Regulatory Applicability and Corresponding Requirements for Big Bend Station," states that 40 CFR 60 Subpart Y "Standards of Performance for Coal Preparation Plants", only applies to emission units CH-048 through CH052 (CH = FH in Document II.D.2.A?), CH-055 and CH-056. Please explain why TEC believes that Subpart Y does not apply to the other solid fuel handling sources (excluding storage piles) listed in Document II.D.2.A.

TEC Response:

The applicability of 40 CFR 60 Subpart Y "Standards of Performance for Coal Preparation Plants" is limited to the equipment directly associated with a coal preparation plant. The Big Bend Station

coal crushers are a Subpart Y affected coal preparation plant. As such, the coal processing, conveying, transfer, and loading systems directly associated with the coal crushers are Subpart Y affected equipment. DEP correctly notes that the affected emission sources include FH-48 through FH-051. All other fuel yard emission sources are not Subpart Y affected equipment because these sources are not directly associated with a coal preparation plant.

FDEP Question 30:

a) The Pollutant Information section for estimated particulate matter emissions lists an emissions factor of 0.01. In what section of AP42 was the emissions factor of 0.01 obtained? The calculations of emissions were not included in Appendix C. b) Tampa Electric Company reported total particulate matter emissions from the coal yard to be 641 tons for calendar year 1995. Please explain why your application states that the particulate matter emissions are estimated to be 25 to 100 tons per year?

TEC Response:

a) The emission factor of 0.01 pound per ton (lb/ton) handled was derived using the emission equations found in Section 13.2.4 - Aggregate Handling and Storage Piles, AP-42, Fifth Edition, July, 1995 (See response to DEP Question 22). The cited emission factor represents the total fuel handling emission per ton of fuel entering the fuel yard. As such, the 0.01 lb/ton handled is the approximate sum of all PM_{10} emissions generated from processing 1 ton of fuel through the fuel yard.

b) The particulate matter emissions reported for calendar years 1995 and 1996 were based on AP-42 emission factors developed in the 1970's and early 1980's. These emission factors had never been updated to reflect AP-42 revisions. As noted above, the emission factors used to develop the Title V Air Operation Permit application are the most recent available. Beginning with calendar year 1997, these recent emission factors will be used to calculate the reported annual emissions. As a result, the annual operating report will be determined using the most up-to-date emission factors.

FDEP Question 31:

Please explain why TEC believes that the process weight table found in Rule 62-296.320(4)2., F.A.C., does not apply to any of the coal processing equipment.

TEC Response:

The process weight table found in Rule 62-296.320(4)2., F.A.C., applies to "the emission of particulate matter through a stack or vent." In addition, per Rule 62-296.320(4), F.A.C., this process rate table rule applies only to emission units of PM not subject to a PM limit or opacity standard set forth elsewhere in Rule 62-296, F.A.C. As noted in TEC's response to Question 27, the fuel blending bins (FH-032 through FH-035), the fuel crushers (FH-048 and FH-049), and the fuel bunkers (FH-059 through FH-062) are subject to the requirements of Rule 62-296.711, F.A.C., and

not the process weight table rule. All other solid fuel handling equipment is exempt from the process weight table rule because PM is not emitted through a stack or vent from this equipment.

FDEP Question 32:

The following information is requested in order to determine if there are additional sources of particulate matter emissions from solid fuel handling/processing that were not included in the application. a) In the application, DOCUMENT II.D.2.A., "BIG BEND STATION EMISSION SOURCE IDENTIFICATION KEY SHEET", lists a Source ID, FH-067, as the Transloading Storage Pile to Loadout Conveyor. Is there actually a separate "Transloading" storage pile, or is this merely a reference to the north, south, or middle storage pile, whichever is being used as the transloading loadout storage pile at a given time? b) In the application, DOCUMENT II.D.3.D., "FUEL HANDLING PROCESS FLOW DIAGRAM, SOUTH FUEL YARD", shows dozer operations on the Long Term Fuel Storage Pile. From what location(s) in the fuel handling process does the dozer bring the fuel to the pile, and to which location(s) is the fuel from the pile resumed to the process? c) Application DOCUMENT II.D.3.F., "FUEL HANDLING PROCESS FLOW DIAGRAM, CRUSHER TOWER AND BUNKERS", shows emission points (FH-050 and FH-051) where the crushers discharge onto conveyor belts CB-W1 and CB-W2. Why is there not a corresponding emission point shown for where the crushers discharge onto conveyor belt CB-U?

TEC Response:

a) The transloaded fuel is handled as a segregated material within the existing stockpile areas denoted on Title V Air Operation Permit application Document II.D.2.E. Creating the transloading stockpile did not increase the total fuel stockpile area because the tranloading stockpile is located in an area previously used to stockpile other solid fuel.

b) Dozer operations occur within the areas denoted North Fuel Yard, Middle Fuel Yard, South Fuel Yard, and Long Term Fuel Storage on Title V Air Operation Permit application Document II.D.2.E. One dozer operation is moving fuel between the South Fuel Yard and Long Term Fuel Storage.

c) Solid fuel may be transferred from the crushers to conveyor belt CB-W2 or conveyor belt CB-U, but not simultaneously to both. Because these transfers occur at the same location, but not simultaneously, FH-051 represents the emission point for both. Title V Operation Permit Application Document II.D.3.F has been revised to more clearly depict this process flow.

Limestone Handling

FDEP Question 33:

a) Application DOCUMENT II.D.2.A., "BIG BEND STATION EMISSION SOURCE IDENTIFICATION KEY SHEET", lists two emission points (LSH-004 and LSH-.005) from Conveyor LE to the South Storage Silo. Are these two emission points the exhausts from the two baghouses DC-4 & DC-5? Are each of these baghouses a Flex Kleen Model No.

58-BVBC-36IIG? Is one of the baghouses controlling dust from conveyor belt LE, or are both baghouses collecting dust from the south storage silo? b) Similarly, two emission points (LSH-006 and LSH-007) are listed for Conveyor LE to the North Storage Silo. Are these two emission points the exhausts from the two baghouses DC-6 & DC-7? Are each of these baghouses a Flex Kleen Model No. 58-BVBC-36-IIG? Is one of the baghouses controlling dust from conveyor belt LE, or are both baghouses collecting dust from the north storage silo?

TEC Response:

The south limestone storage silo is equipped with two identical dust collectors which were assigned Emission Point ID Nos. LSH-004 and LSH-005. The south limestone storage silo dust collectors were assigned ID Nos. DC-4 and DC-5. Each collector is a Flex Kleen Model No. 58-BVBC-36-IIG unit. Both baghouses are used to control PM emissions due to the venting of the south limestone storage silo.

Similar to the south limestone storage silo, the north limestone storage silo is equipped with two identical dust collectors which were assigned Emission Point ID Nos. LSH-006 and LSH-007. The north limestone storage silo dust collectors were assigned ID Nos. DC-6 and DC-7. Each collector is a Flex Kleen Model No. 58-BVBC-36-IIG unit. Both baghouses are used to control PM emissions due to the venting of the north limestone storage silo.

In summary, limestone is transferred by covered conveyor CB-LE through an enclosed system to either the north or south limestone storage silo. Each limestone storage silo vents through a dual baghouse system to atmosphere.

FDEP Question 34:

Application DOCUMENT II.D.3.J., "LIMESTONE HANDLING PROCESS FLOW DIAGRAM", shows unidentified conveyors from the storage silos to the ball mills. Please identify these conveyors and any emission points from them.

TEC Response:

The conveyors from the limestone storage silos to the ball mills were not identified as emission sources because no emissions are released to the atmosphere; i.e., the conveyors are completely closed systems.

FDEP Question 35:

No emissions are indicated from the ball mills. Please explain how emissions are controlled. Also, please explain where the limestone goes after it is ground, the method of conveying the ground limestone, and any associated emission points.

TEC Response:

The two parallel limestone preparation systems are comprised of two limestone storage silos (north and south limestone storage silos), two belt-type gravimetric weigh feeders, two rubber lined ball mills, and two lined reagent feed tanks. Limestone from the storage silos are transferred to the ball mills by means of the enclosed belt-type, variable speed, gravimetric weigh feeders. Water is added to the limestone at the weigh feeder discharge chute to form a limestone slurry. The limestone slurry next enters the rotating ball mills where the limestone is ground by carbon steel balls of various sizes. From the ball mills, the limestone slurry is pumped to the ball mill hydroclones for size classification. The ball mill hydroclones separate slurries of fine limestone particles and coarser ground limestone particles. The coarser ground particles (or hydroclone underflow) are returned to the ball mill inlet for regrinding. The water and finely ground limestone particles (or hydroclone overflow) is discharged to the reagent feed tanks. From the reagent feed tanks, the reagent slurry is pumped to the FGD absorber towers. In summary, the ball mills and all downstream FGD reagent handling equipment operates as wet processes and does not generate PM emissions.

FDEP Question 36:

No emissions are indicated from the limestone storage building. Please explain how fugitive emissions are controlled at the entrance and exit from the building.

TEC Response:

The limestone storage building is an enclosed, four-sided, roofed structure. Covered belt conveyors are used to transfer limestone to and from the building. Accordingly, fugitive dust emissions associated with limestone storage building operations are insignificant.

FDEP Question 37:

All of the limestone handling and storage sources are grouped together as one emission unit with one Standard Classification Code (SCC), 30510105 (Bulk Materials Conveyors-Limestone), with a maximum process rate of 168 tons/hr and requested hours of operation of 8760 hours per year. Please break this one emission unit down into several segments with the appropriate application sections completed. When creating segments consider operating characteristics. For example, is a maximum process rate of 168 tons/hr a realistic rate for truck unloading? Is conveyor belt CB-LC always operating when CB-LB is? When CB-LD is? Here are some suggested segments with corresponding SCCs:

Emission Unit	SCC
Limestone Railcar/Truck Unloading	39510405
Limestone Transfer Tower LL1	39510105
Enclosed Limestone Storage Structure (fugitive emissions?)	30510205
Limestone Transfer Tower LL2	30510205
South Limestone Storage Tower	30510205
North Limestone Storage Tower	30510205
South Limestone Ball Mill	30501601
North Limestone Ball Mill	30501601

TEC Response:

Because one of the goals of the Title V Operation Permit program is simplification, limestone handling and storage was treated as a single process/production activity and addressed in the application as one emissions unit (i.e., Emissions Unit ID 12). Therefore, the information provided in Emissions Unit ID 12 addressed both point sources (i.e., baghouses on the receiving hopper, conveyor transfer points, and storage silos) as well as fugitive emissions associated with limestone delivery truck travel on paved roads. The information contained in Emissions Unit ID 12 (together with the process flow diagram provided in Document II.D.3.J. and control device information provided in Document III.I.3) is adequate to draft the Title V Air Operation Permit because the data provided identifies each emission point and all applicable requirements. Presentation of this same information in another format (i.e., using multiple emission units) will not provide any additional information needed to draft a Title V permit and is unnecessary.

Note that the limestone handling and storage system operates intermittently throughout the year - to allow operation at any time during a year continuous operation was requested. Continuous operation is consistent with current facility permits (i.e., PSD-FL-040 and Site Certification PA 79-12) which do not contain any constraints on limestone handling operating hours.

FDEP Question 38:

Why are the requested hours of operation 8760 hours per year when the potential emissions, on the Emission Inventory Worksheets LSH-001 through LSH-007, are calculated on the basis of 1460 hours per year? How were the potential emissions of 6.07 lb/hr and 4.45 tons/year calculated?

TEC Response:

The limestone handling and storage system operates intermittently throughout the year. A continuous operation was requested to allow operation at any time during year. Maximum actual hours of operation are estimated to be 1,460 hours per year. Consistent with current ELSA instructions, potential PM emission rates for this emissions unit have been revised using Emissions Method Code 0 (potential emissions set equal to equivalent allowable emissions) and assuming continuous operation. The use of allowable emission rates eliminates the need for references to emission factors in the application and the emission rate calculations previously provided in Appendix C. TEC advises FDEP to disregard the now obsolete Appendix C worksheets pertaining to limestone handling.

FDEP Question 39:

The potential PM emissions shown on Emission Inventory Worksheet LSH-001 are 0.65 lb/hr and 0.47 tpy. However, based on the equation, operating hours, exhaust flow rate, and exit grain loading given, the potential PM emission rates appear to be 0.58 lb/hr and 0.42 tpy. Please recalculate and verify your numbers.

TEC Response:

As stated in TEC's response to FDEP Question 38, the limestone handling and storage system operates intermittently throughout the year. A continuous operation was requested to allow operation at any time during year. Maximum actual hours of operation are estimated to be 1,460 hours per year. Consistent with current ELSA instructions, potential PM emission rates for this emissions unit have been revised using Emissions Method Code 0 (potential emissions set equal to equivalent allowable emissions) and assuming continuous operation. The use of allowable emission rates eliminates the need for references to emission factors in the application and the emission rate calculations previously provided in Appendix C. TEC advises FDEP to disregard the now obsolete Appendix C worksheets pertaining to limestone handling.

Fly Ash Handling and Storage Sources

FDEP Question 40:

a) How is the fly ash, dry and wet, transferred to the silos? b) What is the maximum loading rate to Silo #2? c) Why are there particulate emissions (FA-003 and FA-008) associated with the "wet" transfers? Does Silo #2 handle any wet (pug mill) transfer fly ash? d) How will the future connection between Silo #1 and Silo #2 (as indicated on DOCUMENT II.D.3.K.) impact particulate emissions?

TEC Response:

a) Fly ash is pneumatically conveyed from the ESPs' hoppers to the flyash silo in a dry state.

b) As indicated under Emissions Unit ID 9 information, the maximum loading rate is 44.5 tph.

c) Potential fugitive PM emissions may occur during truck loading operations from Silos 1 and 3. Silo 2 does not have a pug mill.

d) TEC has not yet evaluated particulate matter emissions from this future project. TEC is aware that a permit amendment documenting emissions impacts must be processed by the Department prior to implementation of this connection.

FDEP Question 41:

In the application DOCUMENT II.D.2.A., "BIG BEND STATION EMISSION SOURCE IDENTIFICATION KEY SHEET", describes trucks unloading fly ash into Silo #1 but does not describe trucks unloading into Silo #2 or #3. However, DOCUMENT II.D.3.K., "FLYASH HANDLING PROCESS FLOW DIAGRAM", does show trucks unloading fly ash into Silo #2 and Silo #3. Do trucks unload fly ash into Silo #2 and Silo #3 or not? Is fly ash from off-site actually trucked into the facility and unloaded into the fly ash silos, or is the truck unloading process simply a way of transferring fly ash from one on-site fly ash silo to another?

TEC Response:

TEC currently has this process described in the Flyash Silo 1 operating permit. TEC would like FDEP to incorporate this process description into the Flyash Silos 2 and 3 operations as part of the final Title V Operation Permit. Flyash Silos 2 and 3 are currently capable of unloading trucks, but these silos are not now used for this purpose. TEC has utilized this method of operation to unload flyash from trucks both at the facility and off-site sources.

Gypsum Handling and Storage Emission Sources

FDEP Question 42:

How is the actual sludge dewatering performed? Are there any fugitive particulate emissions associated with this process?

TEC Response:

The dewatering process occurs within an enclosed structure. Minimal, if any, fugitive emissions are generated by this process.

Slag and Bottom Ash Handling

FDEP Question 43:

How long does the slag and the bottom ash typically stay in the stackout piles before it is loaded into trucks? Is it still wet when loaded? Are there any fugitive particulate emissions associated with this process?

TEC Response:

Slag and bottom ash typically remain in place for one to two weeks before loading into trucks. However, this holding time is market dependent and may vary. The material is wet when loaded into trucks. Because the material is stored and loaded wet, no fugitive emissions are generated.

Fuel Oil Storage and Handling

FDEP Question 44:

Please provide a list of the contents and capacities of the storage tanks STR-001 through STR-009. Please also list the construction dates and any modification or reconstruction dates. (STR-01 and STR-02 contain No. 2 oil per Table A-1.) Do the storage tank emit any VOCs or HAPs?

TEC Response:

Because these storage tanks are exempt emission sources, no additional information is required or provided. By providing the locations of these storage tanks, Document II.D.2.K may inadvertently imply that these storage tanks may be a regulated or unregulated emissions units.

FDEP Question 45:

The No. 2 Fuel Oil Analysis submitted in the application lists the heat content units as "Btu/lb". Is this correct?

TEC Response:

The typical No. 2 fuel oil analysis contained in Document III.I.2 provides the fuel oil heat content in units of Btu/lb (i.e., 19,359 Btu/lb) as well as units of Btu/gal (i.e., 139,501 Btu/gal). The fuel oil heat content can be converted to either units based on the oil density of 7.206 lb/gal.

Abrasive Blast Media Storage

FDEP Question 46:

What type of abrasive blast media is used? Where does the blasting occur? Please provide information for this source so that it may be included in the Title V permit per Rule 210.300(3)(b).

TEC Response:

Consistent with Chapter 63-213.430(6), F.A.C., Big Bend Station maintenance abrasive blasting is an exempt activity because potential PM emissions are expected to be less than 5 tpy. The blast media storage bin is an exempt activity for the same reason. Because these activities are exempt, addition information has not been provided, per the FDEP instructions for completing Title V Air Operation Permit applications.

Ship Repair Facility

FDEP Question 47:

Based on comments received from EPCHC, during an EPCHC inspection on June 6, 1994, a ship repair facility (GC Services, a TEC Transport Company) was found operating along side the Big Bend Station coal yard. TEC provided information regarding this operation following an inspection performed on December 6, 1994. During that inspection, EPCHC was informed that the operations would be included in the Title V application for the power plant. Please provide this information for an after-the-fact construction application and submit a compliance plan, or indicate why this source does not need to be included in the Title V permit.

TEC Response:

Two GC Service emissions units have been added to the revised Big Bend Station Title V Air Operation Permit application. These emissions units are E.U. 17, Surface Coating of Miscellaneous Metal Parts, and E.U. 18, Abrasive Blast Booth. These two emissions units were omitted from the initial Title V Air Operation Permit application because TEC believed the emission sources were part of an independent operation. Upon further review, these emission sources may not be independent per 40 CFR 70. TEC continues to evaluate the status of these emission sources, but has provided the requested information to expedite the permitting process.

Exempt GC Service emission sources include unconfined abrasive blasting for maintenance of marine vessels and two abrasive blast storage bins. Consistent with Chapter 63-213.430(6), F.A.C., these activities are exempt because potential PM emissions from each source are expected to be less than 5 tpy. Because these activities are exempt, addition information has not been provided, per the FDEP instructions for completing Title V Air Operation Permit applications

List of Proposed Exempt Activities

FDEP Question 48:

Currently, in order for an emissions unit and/activity to be "exempt" in the Title V permit, the emissions unit and/or activity cannot exceed one or more of the emissions thresholds or have a unit-specific requirement (see Rule 62-213.430(6), F.A.C.). Also, the Department has issued guidance on emission units and/or activities that are considered 'trivial" (see enclosed DARM-PER/V-15, revised March 15, 1996). These emissions units and/or activities no longer need to be included in Title V permit applications. "Trivial" emission units and /or activities will not be included in the Title V permit. Please update your attachment "List of Proposed Exempt Activities" and provide sufficient information to classify the emissions units and/or activities into two new categories-those that are "exempt" and those that are "unregulated".

To properly update the "List of Proposed Exempt Activities" you need to consider the requirements of Rule 62-213.430(6), F.A.C. If the answer to any of the following questions is yes, an emissions unit and/or activity cannot be "exempt".

(1) Does any unit or activity have a unit-specific applicable requirement?

(2) Does any unit or activity emit, or have the potential to emit, equal to or greater than:

- **1,000 pounds/year of any hazardous air pollutant (HAP);**
- **2,500 pounds/year of total HAPs; and/or**
- **5 TPY of any other regulated air pollutant, i.e. volatile organic compound (VOC)?**

TEC Response:

The Document II.D.7 List of Insignificant Activities has been revised to classify the emission units and/or activities as either "exempt" or "unregulated" as requested. Lists of Exempt Activities and Unregulated Activities are attached as replacements for the original Document II.D.7 material.

FDEP Question 49:

The National Emission Standards for Halogenated Solvent Cleaning (40 CFR63, Subpart T) apply if you own or operate a solvent cleaning machine that uses a solvent that contains 5 percent or more by weight of any one of any combination of the following halogenated solvents: Carbon Tetrachloride; Chloroform; Perchloroethylene; 1,1,1-Trichloroethane; Trichloroethylene; or Methylene chloride. a) Are any of these six solvents being used at this facility? b) If yes, what is the amount of solvent (in gallons) used annually at parts-cleaning and degreasing stations? c) Are buckets, pails, and beakers with capacities greater than 7.6 liters (2 gallons) being used?

TEC Response:

a) Big Bend Station uses citrus-based substances for solvent cleaning. Neither carbon tetrachloride, chloroform, perchloroethylene, 1,1,1-trichloroethane, trichloroethylene, nor methylene chloride are used at our part-cleaning and decreasing stations.

b) Neither carbon tetrachloride, chloroform, perchloroethylene, 1,1,1-trichloroethane, trichloroethylene, nor methylene chloride are used at our part-cleaning and decreasing stations.

c) Buckets, pails and beakers with capacities greater than 2 gallons are not used in conjunction with carbon tetrachloride, chloroform, perchloroethylene, 1,1,1-trichloroethane, trichloroethylene, or methylene chloride.

FDEP Question 50:

Do the vehicle refueling operations dispense 20,000 gallons/month or more of gasoline? If so, Stage I vapor control applies per Rule 62-252.300(1), F.A.C.

TEC Response:

The Big Bend Station vehicle refueling station operation does not dispense more than 20,000 gallons/month gasoline.

Miscellaneous

FDEP Question 51:

Please submit a copy of all the approved emissions Alternate Sampling Procedures (ASPs) and all approved fuel sampling and/or washing procedures that are currently being utilized for the Big Bend Station.

TEC Response:

TEC does not have any Alternate Sampling Procedures. Steam Generating Unit Nos. 1, 2, and 3 currently follow the fuel sampling protocol described in our existing permits. Coal washing is not conducted at Big bend Station. All coal washing is conducted by fuel vendors. Coal washing reports are submitted quarterly, per the existing PSD permit requirements.

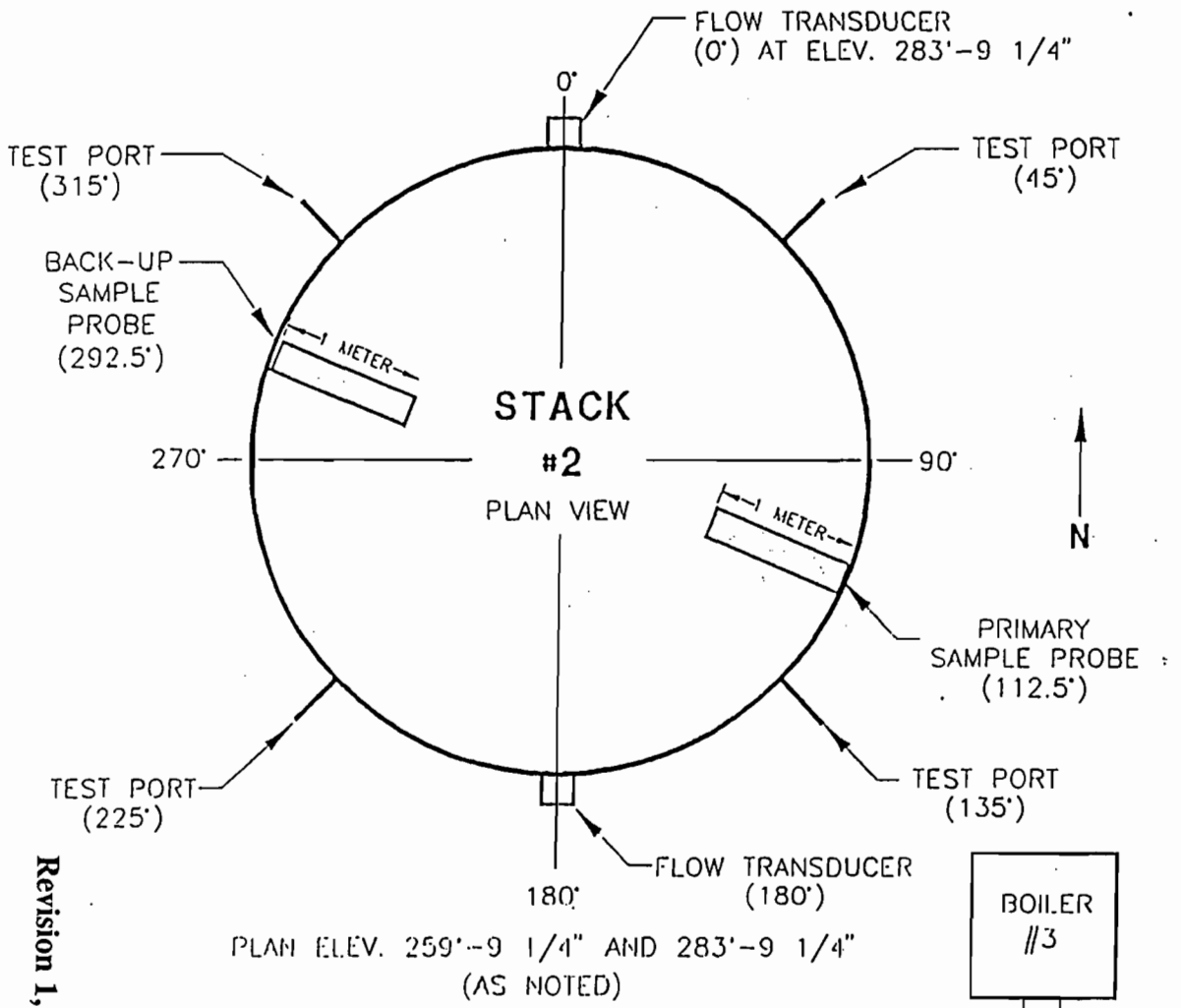
FDEP Question 52:

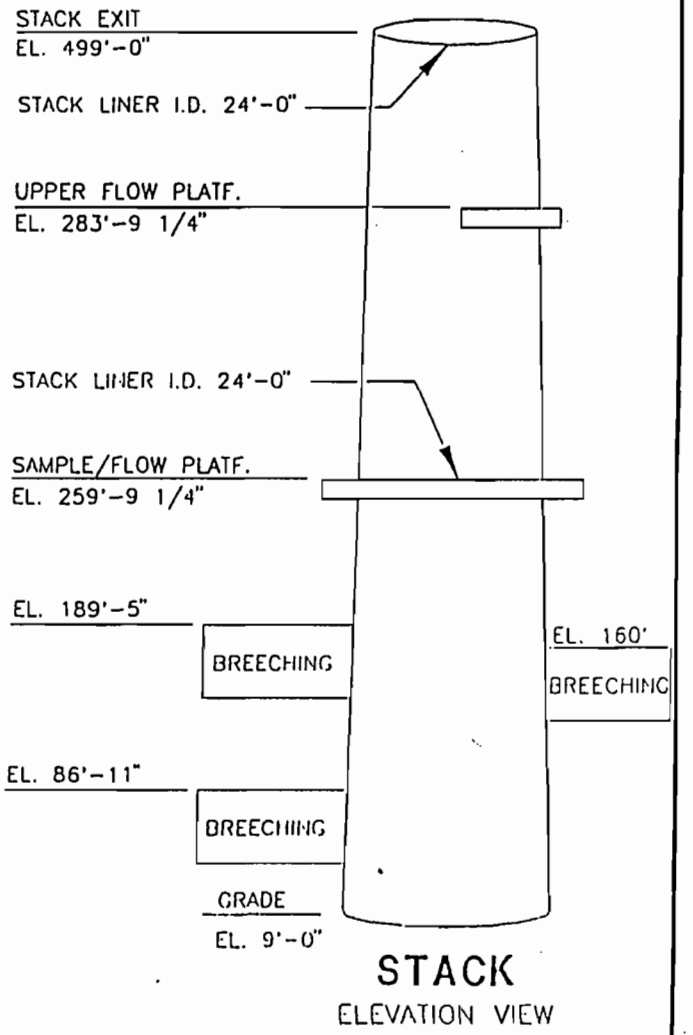
A "once-through cooling water system" is mentioned in the introduction to the application. Is this a cooling tower?

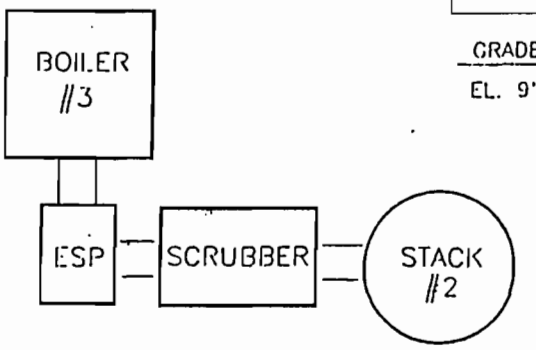
TEC Response:

The Big Bend Station once-through cooling water system does not have a cooling tower.

Attachment 1







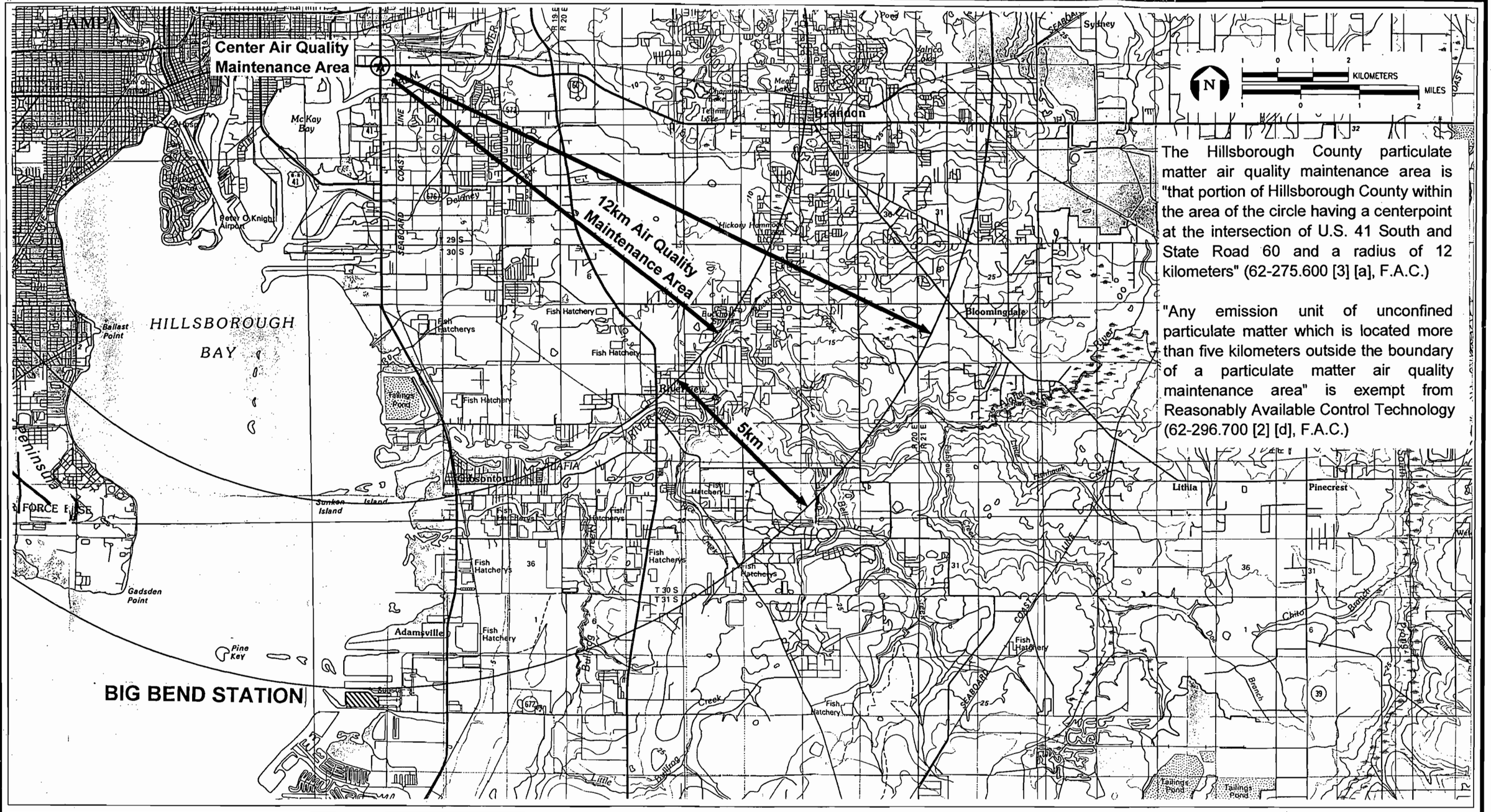
Revision 1, 07/18/97

TAMPA ELECTRIC
A TECO ENERGY COMPANY

CEM SYSTEM
PLAN AND ELEVATION VIEWS
UNIT NO.3-BIG BEND STATION

DESIGNED BY	CHECKED BY	APPROVED BY
CW/JFM	CW	DC
DATE 03/95	JOB NO. B42-77	
FILE NAME CEM-B42		DWG NO. SH.6

94491-0100/at



The Hillsborough County particulate matter air quality maintenance area is "that portion of Hillsborough County within the area of the circle having a centerpoint at the intersection of U.S. 41 South and State Road 60 and a radius of 12 kilometers" (62-275.600 [3] [a], F.A.C.)

"Any emission unit of unconfined particulate matter which is located more than five kilometers outside the boundary of a particulate matter air quality maintenance area" is exempt from Reasonably Available Control Technology (62-296.700 [2] [d], F.A.C.)

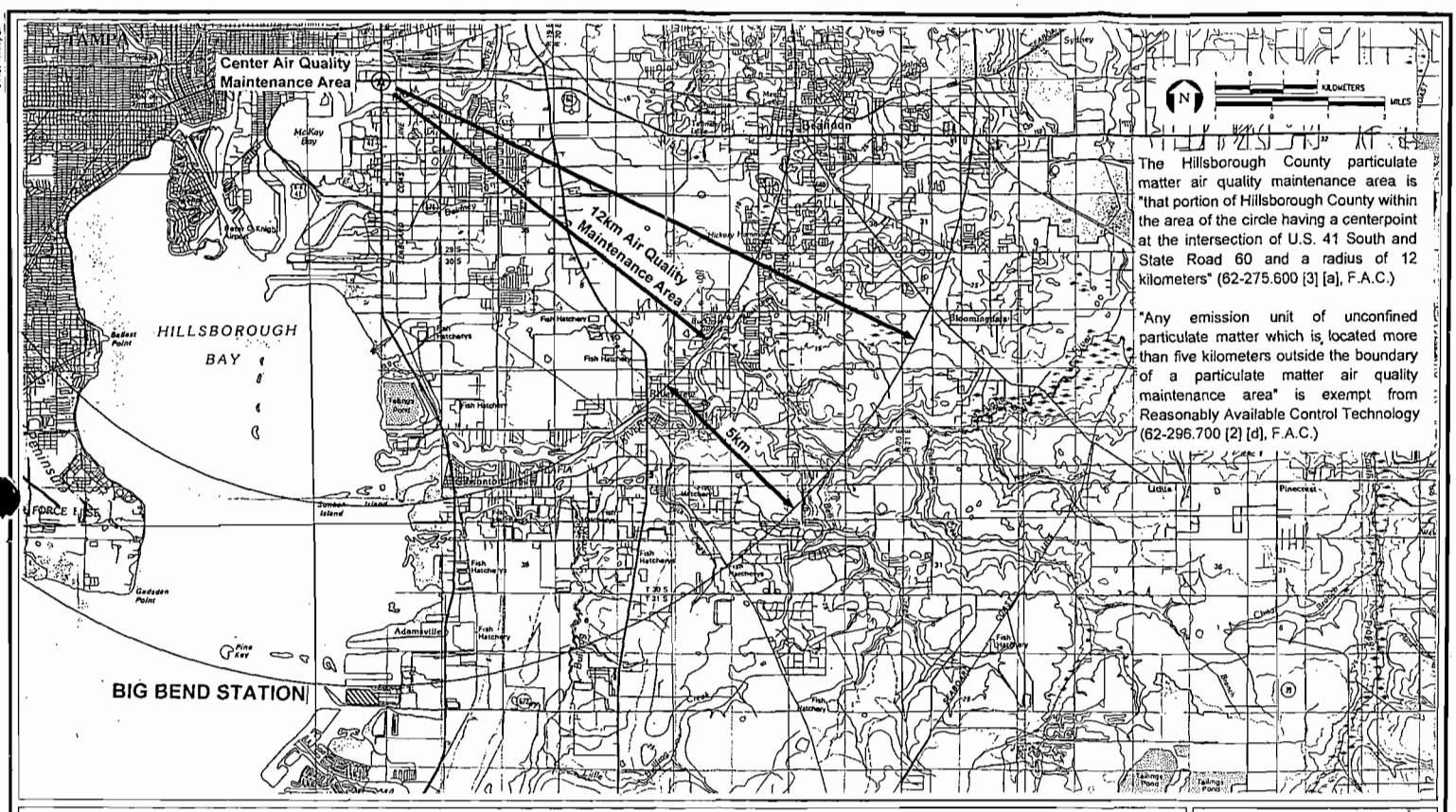
ATTACHMENT 2.

SPATIAL RELATIONSHIP BETWEEN BIG BEND STATION AND THE HILLSBOROUGH COUNTY PARTICULATE MATTER AIR QUALITY MAINTENANCE AREA

Source: USGS 30x60 St. Petersburg, FL, Quad, 1981.

TAMPA ELECTRIC
A TECO ENERGY COMPANY

Revision 1, 07/18/97



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Source: USGS 30x60 St. Petersburg, FL, Quad, 1981.

TAMPA ELECTRIC
A TECO ENERGY COMPANY

Revision 1, 07/18/97

Revised Application

INTRODUCTION

The Tampa Electric Company (TEC) Big Bend Station located in Tampa, Hillsborough County, Florida is a nominal 2,028 megawatt (MW) electric generation facility. The Big Bend Station consists of four steam boilers (Unit Nos. 1 through 4), four steam turbines, three simple-cycle combustion turbines (CT Nos. 1, 2, and 3), a once-through cooling water system, solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities, fuel oil storage tanks, and ancillary support equipment. Unit Nos. 1, 2, 3 and 4 have nominal maximum heat inputs of 4,037, 3,996, 4,115, and 4,330 million British thermal units per hour (MMBtu/hr), respectively. CT No. 1 has a nominal maximum heat input of 173 MMBtu/hr. CT Nos. 2 and 3 each have a nominal maximum heat input of 950 MMBtu/hr. Units Nos. 1 through 4 are all fired with solid fuel (coal and petroleum coke/coal fuel blend) with No. 2 fuel oil used for ignition during startups. The combustion turbines are all fired with No. 2 distillate fuel oil.

Current Florida Department of Environmental Protection (FDEP) Operation Permits for the Big Bend Station are summarized in the following table:

Emission Unit	Permit No.	Issuance Date	Expiration Date
Unit No. 1	AO29-219924	12/23/92	12/01/97
Unit No. 2	AO29-179912	11/19/90	11/21/95
Unit No. 3	AO29-279911	08/30/90	08/30/95
Unit No. 4	PA 79-12	08/17/81	N/A
Unit No. 4	PSD-FL-040	10/15/81	N/A
CT No. 1	AO29-160257	07/24/89	07/07/94
CT No. 2	AO29-174596	03/15/90	03/09/95
CT No. 3	AO29-174611	05/09/90	04/27/95
Fly Ash Silo No. 1	AO29-160255	12/21/89	12/22/94
Fly Ash Silo No. 2	AO29-161082	07/24/89	07/07/94
Coal Bunker Rotoclones	AO29-163788	10/06/89	06/30/94

Pursuant to Chapter 62-210.300(2)((a)3.a., the expiration dates of emission units subject to the Title V permitting program are automatically extended until 60 days after the due date for submittal of the facility's Title V permit application; i.e., until August 14, 1996 for the Big Bend Station. Facilities that file a timely and complete Title V permit application are authorized to continue to operate under the terms of existing operation permits until the Title V permit is issued.

The TEC Big Bend Station qualifies as a Title V Source pursuant to Chapter 62-210.200(173), Florida Administrative Code (F.A.C.), because potential emissions of a regulated air pollutant exceed 100 tons per year. This application package, prepared using Electronic Submission of Application (ELSA) Version 1.2.1, constitutes TEC's Title V permit application for the Big Bend Station and is submitted to satisfy the requirements of Chapter 62-213.400, F.A.C.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Identification of Facility Addressed in This Application

Tampa Electric Company Big Bend Station
Big Bend Road; North Ruskin, Florida
Existing, Permitted Facility

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Stanley J. Martin
   General Manager, Big Bend Station

2. Owner/Authorized Representative or Responsible Official Mailing Address:

   Organization/Firm: **Tampa Electric Company**
   Street Address: **P.O. Box 111**
   City: **Tampa** State: **FL** Zip Code: **33601-0111**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: **(813) 228-4111** Fax: **(813) 228-1864**

4. Owner/Authorized Representative or Responsible Official Statement:

   I, the undersigned, am the owner or authorized representative of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. 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. 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 any permitted emissions unit.*

   Stanley Martin — Signature

   7/17/97 — Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID	Description of Emissions Unit
001	Unit No. 1; Solid Fuel Steam Generator
002	Unit No. 2; Solid Fuel Steam Generator
003	Unit No. 3; Solid Fuel Steam Generator
004	Unit No. 4; Solid Fuel Steam Generator
007	Combustion Turbine No. 1
005	Combustion Turbine No. 2
006	Combustion Turbine No. 3

Scope of Application

Emissions Unit ID	Description of Emissions Unit
008	Fly Ash Silo No. 1 (Units #1 and #2)
009	Fly Ash Silo No. 2 (Units #1, #2, and #3)
014	Fly Ash Silo No. 3 (Unit #4)
015	Solid Fuel Bunkers (all units)
011	Limestone Handling and Storage (all sources)
No Id	Fly Ash Handling and Storage Fugitives (all except silos)
No Id	Gypsum Handling and Storage Fugitives (all gypsum sources)

Scope of Application

Emissions Unit ID	Description of Emissions Unit
010	Solid Fuel Handling and Storage Fugitives (all sources)
No Id	Slag and Bottom Ash Handling (all sources)

Purpose of Application and Category

Category I : All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain :

[X] Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.

[ ] Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number :

[ ] Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed :

[ ] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number :

Operation permit to be revised :

[ ] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application.

Operation permit to be revised/corrected :

[ ] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit.

Operation permit to be revised :

Reason for revision :

Category II : All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain :

[ ] Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s) :

[ ] Renewal air operation permit under Fule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed :

[ ] Air operation permit revision for a synthetic non-Title V source.

Operation permit to be revised :

Reason for revision :

Category III : All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain :

[ ] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any :

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential

emissions of one or more existing, permitted emissions units.

Current operation permit number(s) :

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Application Processing Fee

Attached - Amount : NA

Construction/Modification Information

1. Description of Proposed Project or Alterations : NA
2. Projected or Actual Date of Commencement of Construction :
3. Projected Date of Completion of Construction :

Professional Engineer Certification

1. Professional Engineer Name: **Thomas W. Davis** Registration Number: **36777**	
2. Professional Engineer Mailing Address: Organization/Firm: **Environmental Consulting & Technology, Inc.** Street Address: **3701 NW 98th Street** City: **Gainesville** State: **FL** Zip Code: **32606**	
3. Professional Engineer Telephone Numbers: Telephone: **(352) 332-0444**	Fax: **(352) 332-6722**

4. Professional Engineer Statement:

I, the undersigned, 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.

If the purpose of this application is to obtain a Title V source air operation permit (check here [X] 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 emission units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit 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.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision 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.

_____ _____

Signature Date

(seal)

* Attach any exception to certification statement.

Application Contact

1. Name and Title of Application Contact : Name : Janice Taylor Title : Senior Engineer
2. Application Contact Mailing Address : Organization/Firm : Tampa Electric Company Street Address : 6944 U.S. Highway 41 North City : Apollo Beach State : FL Zip Code : 33572-9200
3. Application Contact Telephone Numbers : Telephone : (813)641-5039 Fax : (813)641-5081

Application Comment

Initial Title V operating permit application for the Tampa Electric Company Big Bend Station.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Name, Location, and Type

1. Facility Owner or Operator :
   Tampa Electric Company

2. Facility Name : Big Bend Station

3. Facility Identification Number : 0570039

4. Facility Location Information :

   Tampa Electric Company Big Bend Station
   Big Bend Road; North Ruskin, Florida
   Existing, Permitted Facility

   Facility Street Address : Big Bend Road
   City : North Ruskin
   County : Hillsborough
   Zip Code : 33572-____

5. Facility UTM Coordinates :

   Zone : 17 East (km) : 361.90 North (km) : 3075.00

6. Facility Latitude/Longitude :

   Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :

7. Governmental Facility Code :	8. Facility Status Code :	9. Relocatable Facility ?	10. Facility Major Group SIC Code :
0	A	N	49

11. Facility Comment :

   On-specification used oil will be burned for energy recovery up to 1,000,000 gallons per year facility-wide.

Facility Contact

1. Name and Title of Facility Contact : Name : Greg Benton Title : Environmental Coordinator
2. Facility Contact Mailing Address : Organization/Firm : Tampa Electric Company Street Address : Big Bend Road City : North Ruskin State : FL Zip Code : 33572-____
3. Facility Contact Telephone Numbers : Telephone : (813)228-4111 Fax : (813)228-1864

Facility Regulatory Classifications

1. Small Business Stationary Source?	N
2. Title V Source?	Y
3. Synthetic Non-Title V Source?	N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	Y
5. Synthetic Minor Source of Pollutants Other than HAPs?	N
6. Major Source of Hazardous Air Pollutants (HAPs)?	Y
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	Y
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment :	

B. FACILITY REGULATIONS

Rule Applicability Analysis

NA

B. FACILITY REGULATIONS

List of Applicable Regulations

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

See Appendix A

C. FACILITY POLLUTANT INFORMATION

Facility Pollutant Information Pollutant 1

1. Pollutant Emitted :	SO2
2. Estimated Emissions :	(tons/year)
3. Requested Emissions Cap :	63000.0000 (lbs/hour) (tons/year)
4. Basis for Emissions Cap Code :	RULE

5. Facility Pollutant Comment :

Hourly emissions cap represents total sulfur diioxide emissions from Units 1, 2, and 3 for a three-hour average per FDEP Rule 62-296.405(1)(c)2..b., F.A.C.

Facility Pollutant Classification Codes:

A - CO, NOx, PM, PM10, SO2, VOC, H106 (HCl), H107 (HF), H133 (Ni), and HAPS.
SM - None
B - None

C. FACILITY POLLUTANT INFORMATION

Facility Pollutant Information Pollutant 2

1. Pollutant Emitted : SO2
2. Estimated Emissions : (tons/year)
3. Requested Emissions Cap : 50000.0000 (lbs/hour) (tons/year)
4. Basis for Emissions Cap Code : RULE
5. Facility Pollutant Comment : Hourly emissions cap represents total sulfur dioxide emissions from Units 1, 2, and 3 for a 24-hour average period per FDEP Rule 62-296.405(1)(c)2..b., F.A.C.

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	II.D.1
2. Facility Plot Plan :	II.D.2
3. Process Flow Diagram(s) :	II.D.3
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	II.D.4
5. Fugitive Emissions Identification :	II.D.5
6. Supplemental Information for Construction Permit Application :	NA

Additional Supplemental Requirements for Category I Applications Only

7. List of Insignificant Activities :	II.D.7
8. List of Equipment/Activities Regulated under Title VI :	II.D.8
9. Alternative Methods of Operation :	II.D.9
10. Alternative Modes of Operation (Emissions Trading) :	II.D.10
11. Enhanced Monitoring Plan :	II.D.11
12. Risk Management Plan Verification :	II.D.12
13. Compliance Report and Plan :	II.D.13
14. Compliance Statement (Hard-copy Required) :	II.D.14

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 1

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Unit No. 1; Solid Fuel Steam Generator		
2. ARMS Identification Number : 001		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? Y	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : 445 MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : See process flow diagram in Document II.D.3. Riley-Stoker steam boiler with electrostatic precipitator (ESP) control and flue gas conditioning systems. Unit No. 1 is a "regulated" emissions unit.		

Emissions Unit Information Section 1

Emissions Unit Control Equipment 1

1. Description : Electrostatic Precipitator Systems.
2. Control Device or Method Code : 10

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	4037 mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr tons/day
3. Maximum Process or Throughput Rate :	Units :
4. Maximum Production Rate :	Units :
5. Operating Capacity Comment :	Maximum fuel heat input rate is 4,037 mmBtu/hour on a monthly average basis.

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	CS-001	
2. Emission Point Type Code :	2	
3. Descriptions of Emission Points Comprising this Emissions Unit : N/A		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	499	feet
7. Exit Diameter :	24.0	feet
8. Exit Temperature :	294	°F
9. Actual Volumetric Flow Rate :	1316452	acfm
10. Percent Water Vapor :	9.00	%
11. Maximum Dry Standard Flow Rate :	870000	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 361.900 North (km) : 3074.000		
14. Emission Point Comment : Stack data based on 12/6/94 source test.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Coal burned in Unit No. 1.	
2. Source Classification Code (SCC) : 1-01-002-01	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 183.50	5. Maximum Annual Rate : 1,607,460.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 3.71	8. Maximum Percent Ash : 10.70
9. Million Btu per SCC Unit : 22	
10. Segment Comment : No. 2 fuel oil used for ignition during start-up. Btu per SCC unit value (Field 9) based on a nominal coal heat content of 11,000 Btu/lb. Coal may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Distillate (No. 2) fuel oil burned in Unit No. 1 for startup.	
2. Source Classification Code (SCC) : 1-01-005-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 24.00	5. Maximum Annual Rate : 2,112.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 136	
10. Segment Comment : No. 2 fuel oil used for ignition during startup. Startup includes cold start, hot start, bringing an additional mill or cyclone into service, maintenance activities, etc. Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal. Maximum annual rate (Field 5) is estimated based on past practice.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	SO2			
2. Total Percent Efficiency of Control :	0.00	%		
3. Primary Control Device Code :				
4. Secondary Control Device Code :				
5. Potential Emissions :	26,240.50	lb/hour	114,933.40	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	6.50			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				
Emission Unit Pollutant Regulatory Codes:				

EL	-	PM and SO2.
WP	-	None
NS	-	CO, NOx, PM10, VOC, Pb, H106 (HCl), H107 (HF), H133 (Ni), and HAPS.

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.70	%		
3. Primary Control Device Code :	010			
4. Secondary Control Device Code :				
5. Potential Emissions :	1,211.10	lb/hour	2,210.30	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor : 0.30 Units : lb/MMBtu Reference : Allowable Emission				
9. Emissions Method Code :				
10. Calculations of Emissions : See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. 0.3 lb/MMBtu applicable during soot blowing. 0.1 lb/MMBtu applicable during non-soot blowing. Annual PM emission rate based on 3 hrs/day soot blowing and 21 hrs/day non-soot blowing.				

Emissions Unit Information Section 1

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	6.50 lb/MMBtu
4. Equivalent Allowable Emissions :	26,240.50 lb/hour 114,933.40 tons/year
5. Method of Compliance :	Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring per FDEP Rule 62-296.405(1(f)1.b., F.A.C. Deletion of current requirement to conduct an annual stack test is requested.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Hourly rate is a two-hr average. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.

Emissions Unit Information Section 1

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	25.00 tons/hr
4. Equivalent Allowable Emissions :	50,000.00 lb/hour tons/year
5. Method of Compliance :	Daily composite fuel sampling and analysis per Specific Condition 9.C of permit AO29-219924 or continuous emissions monitoring. Deletion of current requirement to conduct an annual stack test is requested.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Hourly rate represents total emissions from Units 1, 2, and 3 for a 24-hour average period. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.

Emissions Unit Information Section 1

Pollutant Information Section 1

Allowable Emissions 3

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	31.50 tons/hr
4. Equivalent Allowable Emissions :	63,000.00 lb/hour tons/year
5. Method of Compliance :	Daily composite fuel sampling and analysis per Specific Condition 9.C of permit AO29-219924. Deletion of current requirement to conduct an annual stack test is requested.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Hourly rate represents total emissions from Units 1, 2, and 3 for a three-hour average period. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.

Emissions Unit Information Section 1

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.30	lb/MMBtu		
4. Equivalent Allowable Emissions :	1,211.10	lb/hour	2,210.30	tons/year
5. Method of Compliance : Annual test using EPA reference method 5, 5B, or 17. Option to use three soot-blowing test runs to demonstrate compliance with non-soot blowing standard is requested.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 0.3 lb/MMBtu applicable during soot blowing (3 hrs/day). 0.1 lb/MMBtu two-hour average during non-soot blowing. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.				

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	20 %
Exceptional Conditions :	27 %
Maximum Period of Excess Opacity Allowed :	6 min/hour
4. Method of Compliance :	
Annual test using EPA Reference Method 9.	
5. Visible Emissions Comment :	
FDEP Rule 62-296.405(1)(a), F.A.C.	

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	24 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	Visible emissions above 60 percent opacity are allowed during boiler cleaning and load changes. FDEP Rule 62-210.700(3), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Visible Emissions Limitation : Visible Emissions Limitation 3

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	60 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Excess emissions shall not exceed 3 hrs in any 24-hr period.
FDEP Rule 62-210.700(3), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Visible Emissions Limitation : Visible Emissions Limitation 4

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	Applicable for excess emissions resulting from boiler startups and shutdowns. FDEP Rule 62-210.700(2), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Visible Emissions Limitation : Visible Emissions Limitation 5

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	M400
Serial Number :	400-19284-183
4. Installation Date :	15-Mar-1986
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	

Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C.
One opacity monitor is installed in common stack 1 (CS-001/CS-002) shared with Unit 2.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43H
Serial Number :	43H-40309-262
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. System includes two SO2 monitors. Common stack 1 (CS-001/CS-002) primary and backup SO2 monitors are shared with Unit 2.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	42
Serial Number :	42D-39971-261
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. System includes two NOx monitors. Common stack 1 (CS-001/CS-002) primary and backup NOx monitors are shared with Unit 2.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	100
Serial Number :	P-08436U-0293
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes one flow monitor. Common stack 1 (CS-001/CS-002) flow monitor is shared with Unit 2.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Fuji
Model Number :	3300
Serial Number :	N1L0172T
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes two CO2 monitors. Common stack 1 (CS-001/CS-002) primary and backup CO2 monitors are shared with Unit 2.

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

Emission unit is part of baseline PSD emission inventory.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

Unit No. 1; Solid Fuel Steam Generator

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	III.I.4
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	III.I.12

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 2

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Unit No. 2; Solid Fuel Steam Generator		
2. ARMS Identification Number : 002		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? Y	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : 445 MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : See process flow diagram in Document II.D.3. Riley-Stoker steam boiler with electrostatic precipitator (ESP) control and flue gas conditioning systems. Unit No. 2 is a "regulated" emissions unit.		

Emissions Unit Information Section 2

Emissions Unit Control Equipment 1

1. Description : Electrostatic Precipitator Systems
2. Control Device or Method Code : 10

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	3996 mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr tons/day
3. Maximum Process or Throughput Rate :	Units :
4. Maximum Production Rate :	Units :
5. Operating Capacity Comment :	Maximum fuel heat input rate is 3,996 mmBtu/hour on a monthly average basis.

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	CS-002	
2. Emission Point Type Code :	2	
3. Descriptions of Emission Points Comprising this Emissions Unit : NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : Unit No. 1 (CS-001) and Unit No. 2 (CS-002)		
5. Discharge Type Code :	V	
6. Stack Height :	499	feet
7. Exit Diameter :	24.0	feet
8. Exit Temperature :	290	°F
9. Actual Volumetric Flow Rate :	1324595	acfm
10. Percent Water Vapor :	9.00	%
11. Maximum Dry Standard Flow Rate :	870000	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 316.899 North (km) : 3075.000		
14. Emission Point Comment : Stack data based on 12/21/94 source test.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Coal burned in Unit No. 2	
2. Source Classification Code (SCC) : 1-01-002-01	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 181.60	5. Maximum Annual Rate : 1,591,135.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 3.71	8. Maximum Percent Ash : 10.70
9. Million Btu per SCC Unit : 22	
10. Segment Comment : No. 2 fuel oil used for ignition during start-up. Btu per SCC unit value (Field 9) based on a nominal coal heat content of 11,000 Btu/lb. Coal may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Distillate (No. 2) fuel oil burned in Unit No. 1 for startup.	
2. Source Classification Code (SCC) : 1-01-005-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 24.00	5. Maximum Annual Rate : 2,112.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 136	
10. Segment Comment : No. 2 fuel oil used for ignition during startup. Startup includes cold start, hot start, bringing an additional mill or cyclone into service, maintenance activities, etc. Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal. Maximum annual rate (Field 5) is estimated based on past practice.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	SO2			
2. Total Percent Efficiency of Control :	0.00	%		
3. Primary Control Device Code :				
4. Secondary Control Device Code :				
5. Potential Emissions :	25,974.00	lb/hour	113,766.10	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	6.50			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				
Emission Unit Pollutant Regulatory Codes:				

EL - PM and SO2.
WP - None
NS - CO, NOx, PM10, VOC, Pb, H106 (HCl), H107 (HF), H133 (Ni), and HAPS.

E. POLLUTANT INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.70	%		
3. Primary Control Device Code :	010			
4. Secondary Control Device Code :				
5. Potential Emissions :	1,198.80	lb/hour	2,187.80	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.30			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions. 0.3 lb/MMBtu applicable during soot blowing. 0.1 lb/MMBtu applicable during non-soot blowing. Annual PM emission rate based on 3 hrs/day soot blowing and 21 hrs/day non-soot blowing.				

Emissions Unit Information Section 2

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	6.50 lb/MMBtu
4. Equivalent Allowable Emissions :	25,947.00 lb/hour 113,766.10 tons/year
5. Method of Compliance :	Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring per FDEP Rule 62-296.405(1(f)1.b., F.A.C. Deletion of current requirement to conduct an annual stack test is requested.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Hourly rate is a two-hr average. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.

Emissions Unit Information Section 2

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	25.00 tons/hr
4. Equivalent Allowable Emissions :	50,000.00 lb/hour tons/year
5. Method of Compliance :	Daily composite fuel sampling and analysis per Specific Condition 9.C. of permit AO29-179912 or continuous emissions monitoring. Deletion of current requirement to conduct an annual stack test is requested.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Hourly rate represents total emissions from Units 1, 2, and 3 for a 24-hr average period. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.

Emissions Unit Information Section 2

Pollutant Information Section 1

Allowable Emissions 3

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	31.50	tons/hour	
4. Equivalent Allowable Emissions :	63,000.00	lb/hour	tons/year
5. Method of Compliance :	Daily composite fuel sampling and analysis per Specific Condition 9.C. of permit AO29-179912. Deletion of current requirement to conduct an annual stack test is requested.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Hourly rate represents total emissions from Units 1, 2, and 3 for a 3-hour average period. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.		

Emissions Unit Information Section 2

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	0.30 lb/MMBtu
4. Equivalent Allowable Emissions :	1,198.80 lb/hour 2,187.80 tons/year
5. Method of Compliance :	Annual test using EPA reference method 5, 5B, or 17. Option to use three soot-blowing test runs to demonstrate compliance with non-soot blowing standard is requested.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	0.3 lb/MMBtu during soot blowing (3 hrs/day). 0.1 lb/MMBtu during non-soot blowing. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	Normal Conditions : 20 % Exceptional Conditions : 27 % Maximum Period of Excess Opacity Allowed : 6 min/hour
4. Method of Compliance :	Annual test using EPA Reference Method 9.
5. Visible Emissions Comment :	FDEP Rule 62-296.405(1)(a), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	24 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Visible emissions above 60 percent opacity are allowed during boiler cleaning and load changes.
FDEP Rule 62-210.700(3), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Visible Emissions Limitation : Visible Emissions Limitation 3

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	60 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Excess emissions shall not exceed 3 hrs in any 24-hr period.
FDEP Rule 62-210.700(3), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Visible Emissions Limitation : Visible Emissions Limitation 4

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Applicable for excess emissions resulting from boiler startups and shutdowns.
FDEP Rule 62-210.700(2), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Visible Emissions Limitation : Visible Emissions Limitation 5

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	M400
Serial Number :	400-19284-183
4. Installation Date :	15-Mar-1986
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	
Required by 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C.. One opacity monitor is installed in common stack 1 (CS-001/CS-002) shared with Unit 1.	

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43H
Serial Number :	43H-40309-262
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C.. System includes two SO2 monitors. Common stack 1 (CS-001/CS-002) primary and backup SO2 monitors are shared with Unit 1.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	42
Serial Number :	42D-39971-261
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C.. System includes two NOx monitors. Common stack 1 (CS-001/CS-002) primary and backup NOx monitors are shared with Unit 1.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	100
Serial Number :	P-08436U-0293
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	23-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes one flow monitor. Common stack 1(CS-001/CS-002) flow monitor is shared with Unit 1.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Fuji
Model Number :	3300
Serial Number :	N1L0172T
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes two CO2 monitors. Common stack 1 (CS-001/CS-002) primary and backup CO2 monitors are shared with Unit 1.

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may

3. Increment Consuming/Expanding Code :		
PM :	U	
SO2 :	U	
NO2 :	U	
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		
Emission unit is part of baseline PSD emission inventory.		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

Unit No. 2; Solid Fuel Steam Generator

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	III.I.4
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	III.I.12

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 3

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Unit No. 3; Solid Fuel Steam Generator		
2. ARMS Identification Number : 003		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? Y	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : 445 MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : See process flow diagram in Document II.D.3. Riley-Stoker steam boiler with electrostatic precipitator (ESP) control and flue gas conditioning systems. Unit No. 3 is a "regulated" emissions unit.		

Emissions Unit Information Section 3

Emissions Unit Control Equipment 1

1. Description : Electrostatic Precipitator Systems.
2. Control Device or Method Code : 10

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	4115 mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr tons/day
3. Maximum Process or Throughput Rate :	Units :
4. Maximum Production Rate :	Units :
5. Operating Capacity Comment :	Maximum fuel heat input rate is 4,115 mmBtu/hr on a monthly average basis.

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	CS-003	
2. Emission Point Type Code :	2	
3. Descriptions of Emission Points Comprising this Emissions Unit : NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : Unit 3 (CS-003) and Unit 4 (CS-004). Combined exhausts from Units 3 and 4 are exhausted through Stacks #2 and #3 (Flue Gas Desulfurization Integration Project).		
5. Discharge Type Code :	V	
6. Stack Height :	499	feet
7. Exit Diameter :	24.0	feet
8. Exit Temperature :	308	°F
9. Actual Volumetric Flow Rate :	1296547	acfm
10. Percent Water Vapor :	9.50	%
11. Maximum Dry Standard Flow Rate :	900000	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 361.900 North (km) : 3075.000		
14. Emission Point Comment : Stack data based on 8/4/94 source test.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Coal burned in Unit No. 3	
2. Source Classification Code (SCC) : 1-01-002-01	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 187.00	5. Maximum Annual Rate : 1,638,518.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 3.71	8. Maximum Percent Ash : 10.70
9. Million Btu per SCC Unit : 22	
10. Segment Comment : No. 2 fuel oil used for ignition during start-up. Btu per SCC unit value (Field 9) based on a nominal coal heat content of 11,000 Btu/lb. Coal may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Coal/Petroleum Coke blends burned in Unit No. 3	
2. Source Classification Code (SCC) : 1-01-002-01	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 178.10	5. Maximum Annual Rate : 1,560,494.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 4.20	8. Maximum Percent Ash : 8.80
9. Million Btu per SCC Unit : 23	
10. Segment Comment : No. 2 fuel oil used for ignition during start-up. Data provided in Fields 4, 5, 7, 8, and 9 are based on a 80/20 weight percent blend of coal/petroleum coke on an as-received basis. Composite sulfur content in Field 7 is based on 3.71% S for coal and 6.0% S for petroleum coke. Composite ash content in Field 8 is based on 10.7% ash for coal and 1.0% ash for petroleum coke.	

Data provided in Fields 4, 5, and 9 are based on nominal coal and petroleum coke heating values of 11,000 and 13,750 Btu/lb, respectively, on an as-received basis.

Solid fuels may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Segment Description and Rate : Segment 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Distillate (No. 2) fuel oil burned in UNit No. 3 for startup.	
2. Source Classification Code (SCC) : 1-01-005-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 24.00	5. Maximum Annual Rate : 2,112.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 136	
10. Segment Comment : No. 2 fuel oil used for ignition during startup. Startup includes cold start, hot start, bringing an additional mill or cyclone into service, maintenance activities, etc. Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal. Maximum annual rate (Field 5) is estimated based on past practice.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	SO2			
2. Total Percent Efficiency of Control :	0.00	%		
3. Primary Control Device Code :				
4. Secondary Control Device Code :				
5. Potential Emissions :	26,747.50	lb/hour	117,154.10	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	6.50			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				
Emission Unit Pollutant Regulatory Codes:				

EL	-	PM, NOx, and SO2.
WP	-	None
NS	-	CO, PM10, VOC, Pb, H106 (HCl), H107 (HF), H133 (Ni), and HAPS.

E. POLLUTANT INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted :	NOX			
2. Total Percent Efficiency of Control :	0.00	%		
3. Primary Control Device Code :				
4. Secondary Control Device Code :				
5. Potential Emissions :	2,880.50	lb/hour	12,616.60	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.70			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				

E. POLLUTANT INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.70	%		
3. Primary Control Device Code :	010			
4. Secondary Control Device Code :				
5. Potential Emissions :	1,234.50	lb/hour	2,253.00	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.30			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions. 0.3 lb/MMBtu applicable during soot blowing. 0.1 lb/MMBtu applicable during non-soot blowing. Annual PM emission rate based on 3 hrs/day soot blowing and 21 hrs/day non-soot blowing.				

Emissions Unit Information Section 3

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	6.50 lb/MMBtu
4. Equivalent Allowable Emissions :	26,747.50 lb/hour 117,154.10 tons/year
5. Method of Compliance :	Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring per FDEP Rule 62-296.405(1(f)1.b., F.A.C. Deletion of current requirement to conduct an annual stack test is requested.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Hourly rate is a two-hr average. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.

Emissions Unit Information Section 3

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	25.00	tons/hr	
4. Equivalent Allowable Emissions :	50,000.00	lb/hour	tons/year
5. Method of Compliance : Daily composite fuel sampling and analysis per Specific Condition 12.C. of permit AO29-179911 or continuous emissions monitoring. Deletion of current requirement to conduct an annual stack test is requested.			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Hourly rate represents total emissions from Units 1, 2, and 3 for a 24-hour average period. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.			

Emissions Unit Information Section 3

Pollutant Information Section 1

Allowable Emissions 3

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	31.50	tons/hr	
4. Equivalent Allowable Emissions :	63,000.00	lb/hour	tons/year
5. Method of Compliance :	Daily composite fuel sampling and analysis per Specific Condition 12.C. of permit AO29-179911. Deletion of current requirement to conduct an annual stack test is requested.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Hourly rate represents total emissions from Units 1, 2, and 3 for a 3-hour average period. FDEP Rule 62-296.405(1)(c)2.b., F.A.C.		

Emissions Unit Information Section 3

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.70	lb/MMBtu		
4. Equivalent Allowable Emissions :	2,880.50	lb/hour	12,616.60	tons/year
5. Method of Compliance : 30-day rolling average to be determined using EPA Reference Method 19.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable rate of 0.7 lb/MMBtu based on a 30-day rolling average. FDEP Rule 62-296.405(1)(d)4., F.A.C.				

Emissions Unit Information Section 3

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.30	lb/MMBtu		
4. Equivalent Allowable Emissions :	1,234.50	lb/hour	2,253.00	tons/year

5. Method of Compliance :

Annual test using EPA reference method 5, 5B or 17. Option to use three soot-blowing test runs to demonstrate compliance with non-soot blowing standard is requested. Testing to be conducted in stack CS-003 (non-integrated mode) or in the duct (integrated mode).

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

0.3 lb/MMBtu during soot blowing (3 hrs/day).
0.1 lb/MMBtu during non-soot blowing.
FDEP Rules 62-210.700(3) and 62-296.405(1)(b)., F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	20 %
Exceptional Conditions :	27 %
Maximum Period of Excess Opacity Allowed :	6 min/hour
4. Method of Compliance :	
Continuous opacity monitoring system (COMS). Deletion of current annual test using EPA or FDEP Reference Method 9 is requested.	
5. Visible Emissions Comment :	
FDEP Rule 62-296.405(1)(a), F.A.C.	

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	24 min/hour
4. Method of Compliance :	
Continuous opacity monitoring system (COMS).	
5. Visible Emissions Comment :	
Visible emissions above 60 percent opacity are allowed during boiler cleaning and load changes. FDEP Rule 62-210.700(3), F.A.C.	

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

Visible Emissions Limitation : Visible Emissions Limitation 3

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	60 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
Continuous opacity monitoring system (COMS).	
5. Visible Emissions Comment :	
Excess emissions shall not exceed 3 hrs in any 24-hr period. FDEP Rule 62-210.700(3), F.A.C.	

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

Visible Emissions Limitation : Visible Emissions Limitation 4

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Applicable for excess emissions resulting from boiler startups and shutdowns.
FDEP Rule 62-210.700(2), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

Visible Emissions Limitation : Visible Emissions Limitation 5

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmenal Corporation
Model Number :	M500
Serial Number :	3294/3296
4. Installation Date :	15-Feb-1976
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. System includes two opacity monitors.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43B
Serial Number :	43B-48736-281
4. Installation Date :	15-May-1995
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. System includes two SO2 monitors; inlet SO2 and common stack 2 (CS-003) outlet SO2 monitors.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	42D
Serial Number :	42D-48329-280
4. Installation Date :	15-May-1995
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes one NOx monitor.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	Ultraflow 100
Serial Number :	P-08437U-0293
4. Installation Date :	15-Jul-1993
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes one flow monitor in common stack 2 (CS-003).

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	SIEMENS
Model Number :	Ultramat 5E
Serial Number :	EN-027
4. Installation Date :	15-May-1995
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes two CO2 monitors; inlet CO2 and common stack 2 (CS-003) outlet CO2 monitors.

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

Emission unit is part of baseline PSD emission inventory.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 3

Unit No. 3; Solid Fuel Steam Generator

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	III.I.4
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	III.I.12

13. Identification of Additional Applicable Requirements :	Appendix A
14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 4

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Unit No. 4; Solid Fuel Steam Generator		
2. ARMS Identification Number : 004		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? Y	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : 486 MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : See process flow diagram in Document II.D.3. Foster Wheeler steam boiler with electrostatic precipitator (ESP) and flue gas desulfurization (FGD) control systems. Unit No. 4 is a "regulated" emissions unit.		

Emissions Unit Information Section 4

Emissions Unit Control Equipment 1

1. Description : Electrostatic Precipitator Systems.
2. Control Device or Method Code : 10

Emissions Unit Information Section 4

Emissions Unit Control Equipment 2

1. Description : Wet Limestone Flue Gas Desulfurization
2. Control Device or Method Code : 42

Emissions Unit Information Section 4

Emissions Unit Control Equipment 3

1. Description : Tangential Burners
2. Control Device or Method Code : 24

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	4330 mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr tons/day
3. Maximum Process or Throughput Rate :	Units :
4. Maximum Production Rate :	Units :
5. Operating Capacity Comment :	Maximum fuel heat input rate is 4,330 mmBtu/hr on a monthly average basis.

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	CS-004	
2. Emission Point Type Code :	2	
3. Descriptions of Emission Points Comprising this Emissions Unit : NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : Unit 3 (CS-003) and Unit 4 (CS-004). Combined exhausts from Units 3 and 4 are exhausted through Stacks #2 and #3 (Flue Gas Desulfurization Integration Project)		
5. Discharge Type Code :	V	
6. Stack Height :	499	feet
7. Exit Diameter :	24.0	feet
8. Exit Temperature :	127	°F
9. Actual Volumetric Flow Rate :	1483500	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :		dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 361.600 North (km) : 3075.000		
14. Emission Point Comment : Stack data based on 4/5/95 source test.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Coal burned in Unit No. 4	
2. Source Classification Code (SCC) : 1-01-002-12	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 196.80	5. Maximum Annual Rate : 1,724,127.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 3.71	8. Maximum Percent Ash : 10.70
9. Million Btu per SCC Unit : 22	
10. Segment Comment : No. 2 fuel oil used for ignition during start-up. Btu per SCC value (Field 9) based on a nominal coal heat content of 11,000 Btu/lb. Coal may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Coal/Petroleum Coke blends burned in Unit No. 4.	
2. Source Classification Code (SCC) : 1-01-002-12	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 187.40	5. Maximum Annual Rate : 1,642,026.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 4.20	8. Maximum Percent Ash : 8.80
9. Million Btu per SCC Unit : 23	
10. Segment Comment : No. 2 fuel oil used for ignition during start-up. Data provided in Fields 4, 5, 7, 8, and 9 are based on a 80/20 weight percent blend of coal/petroleum coke on an as-received basis. Composite sulfur content in Field 7 is based on 3.71% S for coal and 6.0% S for petroleum coke. Composite ash content in Field 8 is based on 10.7% ash for coal and 1.0% ash for petroleum coke.	

Data provided in Fields 4, 5, and 9 are based on nominal coal and petroleum coke heating values of 11,000 and 13,750 Btu/lb, respectively, on an as-received basis.

Solid fuels may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Segment Description and Rate : Segment 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Distillate (No. 2) fuel oil burned in Unit No. 4 for startup.	
2. Source Classification Code (SCC) : 1-01-005-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 24.00	5. Maximum Annual Rate : 2,112.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 136	
10. Segment Comment : No. 2 fuel oil used for ignition during startup. Startup includes cold start, hot start, bringing an additional mill or cyclone into service, maintenance activities, etc. Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal. Maximum annual rate (Field 5) is estimated based on past practice.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	SO2			
2. Total Percent Efficiency of Control :	90.00	%		
3. Primary Control Device Code :	042			
4. Secondary Control Device Code :				
5. Potential Emissions :	3,550.60	lb/hour	15,551.60	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.82			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				
Emission Unit Pollutant Regulatory Codes:				

EL	-	PM, NOx, CO, and SO2.
WP	-	None
NS	-	PM10, VOC, H106 (HCl), H107 (HF), and HAPS.

E. POLLUTANT INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted :	NOX			
2. Total Percent Efficiency of Control :	50.00	%		
3. Primary Control Device Code :	024			
4. Secondary Control Device Code :				
5. Potential Emissions :	2,598.00	lb/hour	11,379.20	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.60			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				

E. POLLUTANT INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.70	%		
3. Primary Control Device Code :	010			
4. Secondary Control Device Code :				
5. Potential Emissions :	129.90	lb/hour	569.00	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.03			
Units :	lb/MMBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				

E. POLLUTANT INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted :	CO			
2. Total Percent Efficiency of Control :	0.00	%		
3. Primary Control Device Code :				
4. Secondary Control Device Code :				
5. Potential Emissions :	125.60	lb/hour	550.00	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.03			
Units :	lb/mmBtu			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				

Emissions Unit Information Section 4

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.82	lb/MMBtu		
4. Equivalent Allowable Emissions :	3,576.00	lb/hour	15,662.90	tons/year
5. Method of Compliance : Continuous emissions monitoring system (CEMS). Deletion of current requirement to conduct an annual stack test is requested.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable emission rate of 0.82 lb/MMBtu is on a thirty-day rolling average. FDEP Rule 62-212.410, F.A.C. (BACT).				

Emissions Unit Information Section 4

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.60	lb/MMBtu		
4. Equivalent Allowable Emissions :	2,598.00	lb/hour	11,379.20	tons/year
5. Method of Compliance : EPA Reference Method 19.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable emission rate of 0.6 lb/MMBtu is on a thirty-day rolling average. FDEP Rule 62-212.410, F.A.C., (BACT).				

Emissions Unit Information Section 4

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.03	lb/MMBtu		
4. Equivalent Allowable Emissions :	130.00	lb/hour	569.00	tons/year
5. Method of Compliance : Annual test using EPA reference method 5, 5B, or 17.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : FDEP Rule 62-212.410, F.A.C. (BACT).				

Emissions Unit Information Section 4

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.03	lb/MMBtu		
4. Equivalent Allowable Emissions :	125.60	lb/hour	550.00	tons/year
5. Method of Compliance : EPA Reference Method 10 once every five years.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : FDEP Rule 62-212.410, F.A.C., (BACT)				

Emissions Unit Information Section 4

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	1.20	lb/MMBtu		
4. Equivalent Allowable Emissions :	5,196.00	lb/hour	22,758.48	tons/year
5. Method of Compliance : Continuous emissions monitoring system (CEMS). Deletion of current requirement to conduct an annual stack test is requested.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable emission rate of 1.2 lb/MMBtu is a maximum two hour average. 40 CFR Part 60, Subpart Da.				

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 4

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	20 %
Exceptional Conditions :	27 %
Maximum Period of Excess Opacity Allowed :	6 min/hour
4. Method of Compliance :	
Continuous opacity monitoring system (COMS). Deletion of current annual test using EPA or FDEP Reference Method 9 is requested.	
5. Visible Emissions Comment :	
40 CFR Part 60, Subpart Da, 60.42a(b).. Opacity standards do not apply during periods of startup, shutdown, and malfunction per 40 CFR Part 60, Subpart A, 60.112(c).	

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 4

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43B
Serial Number :	43B-48366-280
4. Installation Date :	15-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by 40 CFR Part 60 (Subpart Da) and 40 CFR Part 75. System includes two SO2 monitors; inlet SO2 and common stack 3 (CS-004) outlet SO2 monitors.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	42D
Serial Number :	42D-47899-279
4. Installation Date :	15-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by 40 CFR Part 60 (Subpart Da) and 40 CFR Part 75. System includes one NOx monitor.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	Manufacturer : Thermo Environmental Corporation Model Number : M400 Serial Number : 3320
4. Installation Date :	15-Jan-1985
5. Performance Specification Test Date :	22-Aug-1993
6. Continuous Monitor Comment :	Required by 40 CFR Part 60 (Subpart Da) and 40 CFR Part 75. System includes one opacity monitor in FGD inlet duct.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	Ultraflow 100
Serial Number :	9401634
4. Installation Date :	15-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes one flow monitor in common stack 3 (CS-004).

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Continuous Monitoring System : Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	SIEMENS
Model Number :	Ultramat 5E
Serial Number :	E3-794
4. Installation Date :	15-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by 40 CFR Part 75. System includes two CO2 monitors; inlet CO2 and common stack 3 (CS-004) outlet CO2 monitors.

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	C
SO2 :	C
NO2 :	U

4. Baseline Emissions :

PM :	0.0000	lb/hour	0.0000	tons/year
SO2 :	0.0000	lb/hour	0.0000	tons/year
NO2 :				tons/year

5. PSD Comment :

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Solid Fuel Steam Generator

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	III.I.4
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	III.I.12

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 5

Combustion Turbine No. 1

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 5

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Combustion Turbine No. 1		
2. ARMS Identification Number : 007		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Combustion Turbine No. 1 is an "unregulated" emissions unit. Emission Unit Pollutant Regulatory Codes: EL - None		

WP - None
NS - SO2, NOx, PM, PM10, CO, VOC, H106 (HCl)
H107 (HF), H133 (Ni), and HAPS.

Emissions Unit Information Section _____

Emissions Unit Control Equipment _____

1. Description :
2. Control Device or Method Code :

Emissions Unit Information Section 5

Combustion Turbine No. 1

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
hours/day	days/week
weeks/year	hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 5

Combustion Turbine No. 1

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 5

Combustion Turbine No. 1

List of Applicable Regulations

N/A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 5

Combustion Turbine No. 1

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	
2. Emission Point Type Code :	
3. Descriptions of Emission Points Comprising this Emissions Unit :	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	
5. Discharge Type Code :	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :	
14. Emission Point Comment :	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5

Combustion Turbine No. 1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 Distillate Fuel Oil burned in CT No. 1	
2. Source Classification Code (SCC) : 2-01-001-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 1.24	5. Maximum Annual Rate : 10,825.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50	8. Maximum Percent Ash : 0.01
9. Million Btu per SCC Unit : 140	
10. Segment Comment : Fuel usage based on #2 oil heat content of 140,000 Btu/gal.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section _____

Pollutant Potential/Estimated Emissions : _____

1. Pollutant Emitted :		
2. Total Percent Efficiency of Control :	%	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	lb/hour	tons/year
6. Synthetically Limited?		
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor : Units : Reference :		
9. Emissions Method Code :		
10. Calculations of Emissions :		
11. Pollutant Potential/Estimated Emissions Comment :		

Emissions Unit Information Section _____

Pollutant Information Section _____

Allowable Emissions _____

1. Basis for Allowable Emissions Code :
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance :
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section _____

Visible Emissions Limitation : Visible Emissions Limitation _____

1. Visible Emissions Subtype :
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :
5. Visible Emissions Comment :

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section _____

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 5

Combustion Turbine No. 1

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

Emissions unit is part of baseline PSD emission inventory.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 5

Combustion Turbine No. 1

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	III.I.12

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 6

Combustion Turbine No. 2

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 6

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Combustion Turbine No. 2		
2. ARMS Identification Number : 005		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Combustion Turbine No. 2 is an "unregulated" emissions unit. Emission Unit Pollutant Regulatory Codes: EL - None		

WP - None
NS - SO2, NOx, PM, PM10, CO, VOC, H106 (HCl)
H107 (HF), H133 (Ni), and HAPS.

Emissions Unit Information Section _____

Emissions Unit Control Equipment _____

1. Description :
2. Control Device or Method Code :

Emissions Unit Information Section 6

Combustion Turbine No. 2

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate : Units :		
4. Maximum Production Rate : Units :		
5. Operating Capacity Comment :		

Emissions Unit Information Section 6

Combustion Turbine No. 2

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
hours/day	days/week
weeks/year	hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 6

Combustion Turbine No. 2

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 6

Combustion Turbine No. 2

List of Applicable Regulations

N/A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 6

Combustion Turbine No. 2

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	
2. Emission Point Type Code :	
3. Descriptions of Emission Points Comprising this Emissions Unit :	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	
5. Discharge Type Code :	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :	
14. Emission Point Comment :	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6

Combustion Turbine No. 2

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 Distillate Fuel Oil burned in CT No. 2	
2. Source Classification Code (SCC) : 2-01-001-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 6.00	5. Maximum Annual Rate : 52,560.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50	8. Maximum Percent Ash : 0.01
9. Million Btu per SCC Unit : 140	
10. Segment Comment : Fuel usage based on #2 fuel oil heat content of 140,000 Btu/gal.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section _____

Pollutant Potential/Estimated Emissions : _____

1. Pollutant Emitted :		
2. Total Percent Efficiency of Control :	%	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	lb/hour	tons/year
6. Synthetically Limited?		
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor : Units : Reference :		
9. Emissions Method Code :		
10. Calculations of Emissions :		
11. Pollutant Potential/Estimated Emissions Comment :		

Emissions Unit Information Section _____

Pollutant Information Section _____

Allowable Emissions _____

1. Basis for Allowable Emissions Code :
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance :
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section _____

Visible Emissions Limitation : Visible Emissions Limitation _____

1. Visible Emissions Subtype :
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :
5. Visible Emissions Comment :

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section _____

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 6

Combustion Turbine No. 2

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

Emissions unit is part of baseline PSD emission inventory.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 6

Combustion Turbine No. 2

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	III.I.12

13. Identification of Additional Applicable Requirements :	Appendix A
14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 7

Combustion Turbine No. 3

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 7

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Combustion Turbine No. 3		
2. ARMS Identification Number : 006		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Combustion Turbine No. 3 is an "unregulated" emissions unit. Emission Unit Pollutant Regulatory Codes: EL - None		

WP - None
NS - SO2, NOx, PM, PM10, CO, VOC, H106 (HCl)
H107 (HF), H133 (Ni), and HAPS.

Emissions Unit Information Section _____

Emissions Unit Control Equipment _____

1. *Description* :
2. Control Device or Method Code :

Emissions Unit Information Section 7

Combustion Turbine No. 3

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate : Units :		
4. Maximum Production Rate : Units :		
5. Operating Capacity Comment :		

Emissions Unit Information Section 7

Combustion Turbine No. 3

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
hours/day	days/week
weeks/year	hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 7

Combustion Turbine No. 3

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 7

Combustion Turbine No. 3

List of Applicable Regulations

N/A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 7

Combustion Turbine No. 3

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	
2. Emission Point Type Code :	
3. Descriptions of Emission Points Comprising this Emissions Unit :	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	
5. Discharge Type Code :	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :	
14. Emission Point Comment :	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 7

Combustion Turbine No. 3

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 Distillate Fuel Oil burned in CT No. 3.	
2. Source Classification Code (SCC) : 2-01-001-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 6.00	5. Maximum Annual Rate : 52,560.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50	8. Maximum Percent Ash : 0.01
9. Million Btu per SCC Unit : 140	
10. Segment Comment : Fuel usage based on #2 oil heat content of 140,000 Btu/gal.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section _____

Pollutant Potential/Estimated Emissions : _____

1. Pollutant Emitted :
2. Total Percent Efficiency of Control : %
3. Primary Control Device Code :
4. Secondary Control Device Code :
5. Potential Emissions : lb/hour tons/year
6. Synthetically Limited?
7. Range of Estimated Fugitive/Other Emissions: to tons/year
8. Emissions Factor : Units : Reference :
9. Emissions Method Code :
10. Calculations of Emissions :
11. Pollutant Potential/Estimated Emissions Comment :

Emissions Unit Information Section _____

Pollutant Information Section _____

Allowable Emissions _____

1. Basis for Allowable Emissions Code :
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance :
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section _____

Visible Emissions Limitation : Visible Emissions Limitation _____

1. Visible Emissions Subtype :
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :
5. Visible Emissions Comment :

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section _____

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 7

Combustion Turbine No. 3

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

Emission unit is part of baseline PSD emission inventory.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 7

Combustion Turbine No. 3

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	III.I.12

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 8

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Fly Ash Silo No. 1 (Units #1 and #2)		
2. ARMS Identification Number : 008		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Fly Ash Silo No. 1 is is a "regulated" emissions unit.		

Emissions Unit Information Section 8

Emissions Unit Control Equipment 1

1. Description : Fabric Filter
2. Control Device or Method Code : 18

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr tons/day
3. Maximum Process or Throughput Rate : 44 Units : tons/hr	
4. Maximum Production Rate : Units :	
5. Operating Capacity Comment : Maximum throughput rate (Field 3) is 44.5 tons per hour.	

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	FA-001	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : NA		
5. Discharge Type Code :	V	
6. Stack Height :	102	feet
7. Exit Diameter :	1.7	feet
8. Exit Temperature :	250	°F
9. Actual Volumetric Flow Rate :	15500	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :	11470	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 361.684 North (km) : 3075.000		
14. Emission Point Comment :		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Fly Ash Storage	
2. Source Classification Code (SCC) : 3-05-009-99	
3. SCC Units : Tons Transferred Or Handled	
4. Maximum Hourly Rate : 44.50	5. Maximum Annual Rate : 389,820.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.80	%		
3. Primary Control Device Code :	018			
4. Secondary Control Device Code :				
5. Potential Emissions :	5.16	lb/hour	22.62	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor : 5.16 Units : lb/hr Reference : Allowable Emission				
9. Emissions Method Code :				
10. Calculations of Emissions : See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Emission Unit Pollutant Regulatory Codes:				

EL	-	PM
WP	-	None
NS	-	PM10

Emissions Unit Information Section 8

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.03	grains/dscf		
4. Equivalent Allowable Emissions :	5.16	lb/hour	22.62	tons/year
5. Method of Compliance : Annual visible emission test using EPA Reference Method 9 in lieu of particulate test per Specific Condition No. 3 of permit AO29-160255.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Required by Specific Condition No. 2 of permit AO29-160255.				

Emissions Unit Information Section 8

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	5.16	lb/hr		
4. Equivalent Allowable Emissions :	5.16	lb/hour	22.62	tons/year
5. Method of Compliance : Annual visible emission test using EPA Reference Method 9 in lieu of particulate test per Specific Condition No. 3 of permit AO29-160255.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Based on design flow rate of 20081 DSCFM				

Emissions Unit Information Section 8

Pollutant Information Section 1

Allowable Emissions 3

1. Basis for Allowable Emissions Code :				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	22.62	ton/yr		
4. Equivalent Allowable Emissions :	5.16	lb/hour	22.62	tons/year
5. Method of Compliance : Annual visible emission test using EPA Reference Method 9 in lieu of particulate test per Specific Condition No. 3 of permit AO29-160255.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Based on design flow rate of 20081 DSCFM				

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 8

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VEA
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : 5 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance : Annual test using EPA Reference Method 9.
5. Visible Emissions Comment : Required by Specific Condition No. 3 of permit AO29-160255. FDEP Rule 62-297.620(4), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 8

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype : VE
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : 20 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance : Annual test using EPA Reference Method 9.
5. Visible Emissions Comment : VE from silo unloading point. FDEP Rule 62-296.310(2)., F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 8

Visible Emissions Limitation : Visible Emissions Limitation 3

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section _____

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 8

Fly Ash Silo No. 1 (Units #1 and #2)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 9

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Fly Ash Silo No. 2 (Units #1, #2, and #3)		
2. ARMS Identification Number : 009		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Fly Ash Silo No. 2 is a "regulated" emissions unit.		

Emissions Unit Information Section 9

Emissions Unit Control Equipment 1

1. Description : Fabric Filter
2. Control Device or Method Code : 18

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr tons/day
3. Maximum Process or Throughput Rate : 44	Units : tons/hr
4. Maximum Production Rate :	Units :
5. Operating Capacity Comment : Maximum throughput rate (Field 3) is 44.5 tons per hour.	

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	FA-004	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	102	feet
7. Exit Diameter :	2.5	feet
8. Exit Temperature :	250	°F
9. Actual Volumetric Flow Rate :	15500	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :	11470	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates :		
Zone : 17	East (km) : 361.700	North (km) : 3075.000
14. Emission Point Comment :		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Flyash Storage	
2. Source Classification Code (SCC) : 3-05-009-99	
3. SCC Units : Tons Transferred Or Handled	
4. Maximum Hourly Rate : 44.50	5. Maximum Annual Rate : 389,820.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.80	%		
3. Primary Control Device Code :	018			
4. Secondary Control Device Code :				
5. Potential Emissions :	5.16	lb/hour	22.62	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor : 5.16 Units : lb/hr Reference : Allowable Emission				
9. Emissions Method Code :				
10. Calculations of Emissions : See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Emission Unit Pollutant Regulatory Codes:				

EL	-	PM
WP	-	None
NS	-	PM10

Emissions Unit Information Section 9

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	5.16	lb/hr		
4. Equivalent Allowable Emissions :	5.16	lb/hour	22.62	tons/year
5. Method of Compliance : Annual visible emission test using EPA Reference Method 9 in lieu of particulate test per Specific Condition No. 4 of permit AO29-161082.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Required by Specific Condition No. 2 of permit AO29-161082.				

Emissions Unit Information Section 9

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	22.62	tons/year		
4. Equivalent Allowable Emissions :	5.16	lb/hour	22.62	tons/year
5. Method of Compliance : Annual visible emission test using EPA Reference Method 9 in lieu of particulate test per Specific Condition No. 4 of permit AO29-161082.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Required by Specific Condition No. 2 of permit AO29-161082.				

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 9

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VEA
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : 20 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance : Annual test using EPA Reference Method 9.
5. Visible Emissions Comment : FDEP Rule 62-296.310(2), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 9

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section _____

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 9

Fly Ash Silo No. 2 (Units #1, #2, and #3)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 10

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Fly Ash Silo No. 3 (Unit #4)		
2. ARMS Identification Number : 014		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Fly Ash Silo No. 3 is a "regulated" emissions unit.		

Emissions Unit Information Section 10

Emissions Unit Control Equipment 1

1. Description : Fabric Filter
2. Control Device or Method Code : 18

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr tons/day
3. Maximum Process or Throughput Rate : 44 Units : tons/hr	
4. Maximum Production Rate : Units :	
5. Operating Capacity Comment : Maximum throughput rate (Field 3) is 44.5 tons per hour.	

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	FA-006	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	113	feet
7. Exit Diameter :	0.8	feet
8. Exit Temperature :	250	°F
9. Actual Volumetric Flow Rate :	1900	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :	1200	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : North (km) :		
14. Emission Point Comment :		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Fly Ash Storage	
2. Source Classification Code (SCC) : 3-05-009-99	
3. SCC Units : Tons Transferred Or Handled	
4. Maximum Hourly Rate : 44.50	5. Maximum Annual Rate : 389,820.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.80	%		
3. Primary Control Device Code :	018			
4. Secondary Control Device Code :				
5. Potential Emissions :	0.20	lb/hour	0.90	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.20			
Units :	lb/hr			
Reference :	Allowable Emission			
9. Emissions Method Code :				
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Potential emissions set equal to allowable emissions.				
Emission Unit Pollutant Regulatory Codes:				

EL - PM
WP - None
NS - PM10

Emissions Unit Information Section 10

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE	
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	0.20	lb/hr
4. Equivalent Allowable Emissions :	lb/hour	tons/year
5. Method of Compliance : Annual visible emission test using EPA Reference Method 9 in lieu of particulate test per Specific Condition No. 3 of permit PSD-FL-040.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Required by Specific Condition No. 2 of permit PSD-FL-040. FDEP Rule 62-212.410, F.A.C. (BACT)		

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 10

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VEA
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : 5 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance : Annual test using EPA Reference Method 9.
5. Visible Emissions Comment : FDEP Rule 62-212.410, F.A.C. (BACT)

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 10

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VE	
2. Basis for Allowable Opacity :		
3. Requested Allowable Opacity :		
Normal Conditions :		%
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	60	min/hour
4. Method of Compliance :		
5. Visible Emissions Comment :		

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section _____

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 10

Fly Ash Silo No. 3 (Unit #4)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

Type of Emissions Unit Addressed in This Section

[ ] 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).

[X] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 11

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Bins, Crushers, and Bunkers (all units)		
2. ARMS Identification Number : 015		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Blending bins, solid fuel crushers, and solid fuel bunkers is a "regulated" emissions unit.		

Emissions Unit Information Section 11

Emissions Unit Control Equipment 1

1. Description : Roto-Clones for FH-032 through FH-035, FH-048, FH-049, and FH-059 through FH-062 (includes 10 Roto-Clones)
2. Control Device or Method Code : 9

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :	4000	
Units :	ton/hr/device	
4. Maximum Production Rate :		
Units :		
5. Operating Capacity Comment :		
Fuel handling rate.		

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See comment field	
2. Emission Point Type Code :	3	
3. Descriptions of Emission Points Comprising this Emissions Unit : FH-032 through 035, FH-048, FH-049, and FH-059 through FH-062; Roto-Clones.		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	179	feet
7. Exit Diameter :	1.67	feet
8. Exit Temperature :	77	°F
9. Actual Volumetric Flow Rate :	9,400	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :	9,142	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 361.900 North (km) : 3,075.000		
14. Emission Point Comment : Field 1 = FH-032 through 035, FH-048, FH-049, and FH-059 through FH-062. Stack data is typical for each unit. Stack height may vary among specific Roto-Clones.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Fuel handled	
2. Source Classification Code (SCC) : 3-05-101-03	
3. SCC Units : Tons Transferred Or Handled	
4. Maximum Hourly Rate : 8,000.00	5. Maximum Annual Rate : 4,800,000.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	75.00	%		
3. Primary Control Device Code :	009			
4. Secondary Control Device Code :				
5. Potential Emissions :	0.48	lb/hour	0.99	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor : 0.48 Units : lb/hr Reference : Allowable Emissions				
9. Emissions Method Code :				
10. Calculations of Emissions : See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Emission Unit Pollutant Regulatory Codes:				

EL	-	PM
WP	-	None
NS	-	PM10

Emissions Unit Information Section 11

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.99	ton/yr		
4. Equivalent Allowable Emissions :	0.48	lb/hour	0.99	tons/year
5. Method of Compliance : Visible emission test using EPA Reference Method 9 upon permit renewal in lieu of particulate test per Specific Condition No. 7 of permit AO29-163788.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Required by Specific Condition No. 2 of permit AO29-163788. FDEP Rule 62-296.700(2)(c), F.A.C.				

Emissions Unit Information Section 11

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.48	lb/hr		
4. Equivalent Allowable Emissions :	0.48	lb/hour	0.99	tons/year
5. Method of Compliance : Visible emission test using EPA Reference Method 9 upon permit renewal in lieu of particulate test per Specific Condition No. 7 of permit AO29-163788.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Required by Specific Condition No. 2 of permit AO29-163788.				

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 11

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VE
2. Basis for Allowable Opacity : RULE
3. Requested Allowable Opacity : Normal Conditions : 5 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance : EPA Reference Method 9 test upon permit renewal.
5. Visible Emissions Comment : Required by Specific Condition No. 7 of permit AO29-163788. FDEP Rule 62-297.620(4), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 11

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 11

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM :	U	
SO2 :	U	
NO2 :	U	
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 11

Bins, Crushers, and Bunkers (all units)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	NA
14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Information Section 12

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Limestone Handling and Storage (all sources)		
2. ARMS Identification Number : 011		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Point and fugitive emissions associated with limestone handling and storage. Limestone handling and storage is an "regulated" emissions unit.		

Emissions Unit Information Section 12

Emissions Unit Control Equipment 1

1. Description : Fabric filters and periodic watering of plant roads.
2. Control Device or Method Code : 18

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate : 168 Units : ton/hr		
4. Maximum Production Rate : Units :		
5. Operating Capacity Comment : Limestione handling rate.		

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	LSH-001 thru LSH-009
2. Emission Point Type Code :	3
3. Descriptions of Emission Points Comprising this Emissions Unit : LSH-001 thru LSH-007	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : N/A	
5. Discharge Type Code :	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	15 feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :	
14. Emission Point Comment : Field 12 denotes representative average height of point and fugitive emission sources.	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Limestone handling.	
2. Source Classification Code (SCC) : 3-05-101-05	
3. SCC Units : Tons Transferred Or Handled	
4. Maximum Hourly Rate : 168.00	5. Maximum Annual Rate : 1,471,680.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.90	%		
3. Primary Control Device Code :	018			
4. Secondary Control Device Code :				
5. Potential Emissions :	2.05	lb/hour	8.98	tons/year
6. Synthetically Limited?	N			
7. Range of Estimated Fugitive/Other Emissions:	1 1.00	to	5.00	tons/year
8. Emissions Factor : Units : Reference :				
9. Emissions Method Code :				
10. Calculations of Emissions : Emission Method 0 - potential emissions set equal to allowable emissions.				
11. Pollutant Potential/Estimated Emissions Comment : Potential Emissions (Field 5) includes point sources only. Fugitive Emissions (Field 7) represents truck travel on paved roads.				

Emission Unit Pollutant Regulatory Codes:

EL - PM
WP - PM
NS - None

Emissions Unit Information Section 12

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	0.05	lb/hour	0.22	tons/year
5. Method of Compliance : Testing for PM is not required unless opacity limits are exceeded.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Applies to each limestone day silo. Per Table 1 of permit PSD-FL-040 and Condition I.A.4.a. of Site Certification PA 79-12.				

Emissions Unit Information Section 12

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	0.65	lb/hour	2.84	tons/year
5. Method of Compliance : Testing for PM is not required unless opacity limits are exceeded.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Applies to limestone and handling system baghouse. Per Table 1 of permit PSD-FL-040 and Condition I.A.4.b. of Site Certification PA 79-12..				

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 12

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	Normal Conditions : 5 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Annual test using EPA Reference Method 9.
5. Visible Emissions Comment :	Limit applies to limestone handling system (LSH-001 thru LSH-003) and limestone day silos (LSH-004 thru LSH-007). Per Table 1 of permit PSD-FL-040 and Condition I.A.5. of Site Certification PA 79-12..

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 12

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 12

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 12

Limestone Handling and Storage (all sources)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

Type of Emissions Unit Addressed in This Section

[ ] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[X] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Fly Ash Handling and Storage Fugitives (all except silos)		
2. ARMS Identification Number : No Id		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Fugitive emissions associated with fly ash handling. This emissions unit addresses fugitive emission sources FA-002, FA-003, FA-005, FA-007, FA-008, FA-009, and FA-010. Fly ash handling and storage is an "unregulated" emissions unit.		

Emission Unit Pollutant Regulatory Codes:

EL - None
WP - None
NS - PM and PM10.

Emissions Unit Information Section 13

Emissions Unit Control Equipment 1

1. Description : Telescoping chutes, water addition to flyash, periodic watering of plant roads.
2. Control Device or Method Code : 99

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate : Units :		
4. Maximum Production Rate : Units :		
5. Operating Capacity Comment :		

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
hours/day	days/week
weeks/year	hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

List of Applicable Regulations

N/A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	
2. Emission Point Type Code :	
3. Descriptions of Emission Points Comprising this Emissions Unit : F	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	
5. Discharge Type Code :	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :	
14. Emission Point Comment :	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Not applicable - fugitive emissions from a variety of fly ash handling sources.	
2. Source Classification Code (SCC) :	
3. SCC Units :	
4. Maximum Hourly Rate :	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 13

Pollutant Potential/Estimated Emissions :

1. Pollutant Emitted :		
2. Total Percent Efficiency of Control :	%	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	lb/hour	tons/year
6. Synthetically Limited?		
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor : Units : Reference :		
9. Emissions Method Code :		
10. Calculations of Emissions :		
11. Pollutant Potential/Estimated Emissions Comment :		

Emissions Unit Information Section 13

Pollutant Information Section _____

Allowable Emissions _____

1. Basis for Allowable Emissions Code :
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance :
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 13

Visible Emissions Limitation : Visible Emissions Limitation _____

1. Visible Emissions Subtype :
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :
5. Visible Emissions Comment :

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 13

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 13

Fly Ash Handling and Storage Fugitives (all except silos)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

Type of Emissions Unit Addressed in This Section

[ ] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[X] 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.

Emissions Unit Information Section 14

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Gypsum Handling and Storage Fugitives (all gypsum sources)		
2. ARMS Identification Number : No Id		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Fugitive emissions associated with gypsum handling and storage including fugitive emission sources GH-001 through GH-017. Gypsum handling and storage is an "unregulated" emissions unit.		

Emission Unit Pollutant Regulatory Codes:

EL - None
WP - None
NS - PM and PM10.

Emissions Unit Information Section 14

Emissions Unit Control Equipment 1

1. Description : Periodic watering of plant roads.
2. Control Device or Method Code : 99

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate : Units :		
4. Maximum Production Rate : Units :		
5. Operating Capacity Comment :		

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
hours/day	days/week
weeks/year	hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

List of Applicable Regulations

N/A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	
2. Emission Point Type Code :	
3. Descriptions of Emission Points Comprising this Emissions Unit :	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	
5. Discharge Type Code :	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :	
14. Emission Point Comment :	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Gypsum handling.	
2. Source Classification Code (SCC) : 3-05-101-98	
3. SCC Units : Tons Transferred Or Handled	
4. Maximum Hourly Rate : 120.00	5. Maximum Annual Rate : 1,051,200.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 14

Pollutant Potential/Estimated Emissions :

1. Pollutant Emitted :		
2. Total Percent Efficiency of Control :	%	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	lb/hour	tons/year
6. Synthetically Limited?		
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor : Units : Reference :		
9. Emissions Method Code :		
10. Calculations of Emissions :		
11. Pollutant Potential/Estimated Emissions Comment :		

Emissions Unit Information Section 14

Pollutant Information Section _____

Allowable Emissions _____

1. Basis for Allowable Emissions Code :
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance :
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 14

Visible Emissions Limitation : Visible Emissions Limitation _____

1. Visible Emissions Subtype :
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :
5. Visible Emissions Comment :

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 14

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM :	U	
SO2 :	U	
NO2 :	U	
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 14

Gypsum Handling and Storage Fugitives (all gypsum sources)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3.
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

Type of Emissions Unit Addressed in This Section

[ ] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[X] 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.

Emissions Unit Information Section 15

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Solid Fuel Handling and Storage Fugitives (all sources)		
2. ARMS Identification Number : 010		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Solid fuel handling and storage fugitives is a "regulated" emission unit. Fugitive emissions associated with solid fuel handling. This emission unit addresses fugitive emission sources FH-001 through FH-031, FH-036 through FH-047, FH-050 through FH-058, and FH-063 through FH-073.		

Emissions Unit Information Section 15

Emissions Unit Control Equipment 1

1. Description : Application of chemical dust suppressant,
2. Control Device or Method Code : 62

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate : 4000 Units : ton/hr		
4. Maximum Production Rate : Units :		
5. Operating Capacity Comment : Solid fuel handling rate.		

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

Rule Applicability Analysis

NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

List of Applicable Regulations

See Appendix A.

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Document II.D.2	
2. Emission Point Type Code :	4	
3. Descriptions of Emission Points Comprising this Emissions Unit : Fugitive emissions associated with coal handling including FH-001 through FH-031, FH-036 through Fl		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	F	
6. Stack Height :		feet
7. Exit Diameter :		feet
8. Exit Temperature :	77	°F
9. Actual Volumetric Flow Rate :		acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :		dscfm
12. Nonstack Emission Point Height :	20	feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : North (km) :		
14. Emission Point Comment : Field 12 denotes representative average height of fugitive emission sources.		

TECO BB

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Solid fuel handling	
2. Source Classification Code (SCC) : 3-05-102-03	
3. SCC Units : Tons Transferred Or Handled	
4. Maximum Hourly Rate : 4,000.00	5. Maximum Annual Rate : 6,228,030.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	PM
2. Total Percent Efficiency of Control :	%
3. Primary Control Device Code :	
4. Secondary Control Device Code :	
5. Potential Emissions :	lb/hour tons/year
6. Synthetically Limited?	N
7. Range of Estimated Fugitive/Other Emissions:	3 25.00 to 100.00 tons/year
8. Emissions Factor : Units : Reference :	0.01 lb/ton handled AP-42, 1995.
9. Emissions Method Code :	3
10. Calculations of Emissions :	See Appendix C.
11. Pollutant Potential/Estimated Emissions Comment :	Emission factor represents a composite controlled rate for all fugitive sources. Emission Unit Pollutant Regulatory Codes:

EL	-	None
WP	-	PM
NS	-	PM10.

Emissions Unit Information Section 15

Pollutant Information Section _____

Allowable Emissions _____

1. Basis for Allowable Emissions Code :
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance :
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 15

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	Normal Conditions : 20 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	EPA Reference Method 9.
5. Visible Emissions Comment :	Per Condition I.A.3.a. of Site Certification PA 79-12 for unconfined emission sources.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 15

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	Normal Conditions : 5 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	EPA Reference Method 9.
5. Visible Emissions Comment :	Per Condition I.A.3.a. of Site Certification PA 79-12 for emission sources other than unconfined emission sources.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 15

Visible Emissions Limitation : Visible Emissions Limitation 3

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hours in any 24-hour period.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 15

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 15

Solid Fuel Handling and Storage Fugitives (all sources)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3.
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

Type of Emissions Unit Addressed in This Section

[ ] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[X] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Slag and Bottom Ash Handling (all sources)		
2. ARMS Identification Number : No Id		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code :
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Fugitive emissions associated with slag and bottom ash sources BH-001 through BH-004. Slag and bottom ash handling and storage is an "unregulated" emissions unit. Emission Unit Pollutant Regulatory Codes:		

EL - None
WP - None
NS - PM and PM10.

Emissions Unit Information Section 16

Emissions Unit Control Equipment 1

1. Description : Periodic watering of plant roads.
2. Control Device or Method Code : 99

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate : Units :		
4. Maximum Production Rate : Units :		
5. Operating Capacity Comment :		

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
hours/day	days/week
weeks/year	hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

Rule Applicability Analysis

N/A

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

List of Applicable Regulations

N/A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	
2. Emission Point Type Code :	
3. Descriptions of Emission Points Comprising this Emissions Unit :	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	
5. Discharge Type Code :	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :	
14. Emission Point Comment :	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Not applicable	
2. Source Classification Code (SCC) :	
3. SCC Units :	
4. Maximum Hourly Rate :	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 16

Pollutant Potential/Estimated Emissions :

1. Pollutant Emitted :		
2. Total Percent Efficiency of Control :	%	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	lb/hour	tons/year
6. Synthetically Limited?		
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor : Units : Reference :		
9. Emissions Method Code :		
10. Calculations of Emissions :		
11. Pollutant Potential/Estimated Emissions Comment :		

Emissions Unit Information Section 16

Pollutant Information Section _____

Allowable Emissions _____

1. Basis for Allowable Emissions Code :
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance :
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 16

Visible Emissions Limitation : Visible Emissions Limitation _____

1. Visible Emissions Subtype :
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : Normal Conditions : % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :
5. Visible Emissions Comment :

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 16

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment :

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM :	U
SO2 :	U
NO2 :	U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 16

Slag and Bottom Ash Handling (all sources)

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

Type of Emissions Unit Addressed in This Section

[ ] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[X] 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.

Emissions Unit Information Section 17

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Surface Coating of Miscellaneous Metal Parts.		
2. ARMS Identification Number : No Id		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 37
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Not applicable Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : This emission unit also includes the surface coating of the exterior of marine vessels. Emission unit is a "regulated" emissions unit.		

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :	7000	
Units :	gal coating/yr	
4. Maximum Production Rate :		
Units :		
5. Operating Capacity Comment :		

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

Rule Applicability Analysis

N/A

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	GCS-001
2. Emission Point Type Code :	4
3. Descriptions of Emission Points Comprising this Emissions Unit : Not applicable	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : Not applicable	
5. Discharge Type Code :	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	5 feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 360.900 North (km) : 3075.000	
14. Emission Point Comment :	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Surface coating of miscellaneous metal parts and the exterior of marine vessels.	
2. Source Classification Code (SCC) : 4-02-001-10	
3. SCC Units : Gallons Used	
4. Maximum Hourly Rate : 2.00	5. Maximum Annual Rate : 7,000.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	VOC
2. Total Percent Efficiency of Control :	0.00 %
3. Primary Control Device Code :	
4. Secondary Control Device Code :	
5. Potential Emissions :	lb/hour tons/year
6. Synthetically Limited?	Y
7. Range of Estimated Fugitive/Other Emissions:	3 25.00 to 100.00 tons/year
8. Emissions Factor : Units : Reference :	3.00 lb/gal 62-296.513(2)(a)4.
9. Emissions Method Code :	
10. Calculations of Emissions :	Emission Method Code 0 - potential emissions equal to allowable emissions.
11. Pollutant Potential/Estimated Emissions Comment :	Cited emission factor is for non-clear surface coating. The emission factor for clear surface coating is 4.3 lb/gal, per Rule 62-296.513(2)(a)1., F.A.C. Emission Unit Pollutant Regulatory Codes:

EL - VOC
WP - None
NS - None

Emissions Unit Information Section 17

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	4.30	lb/gal		
4. Equivalent Allowable Emissions :	8.60	lb/hour	25.60	tons/year
5. Method of Compliance : Material usage recordkeeping				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Rule 62-296.513(2)(a)1., F.A.C., for clear surface coatings.				

Emissions Unit Information Section 17

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	3.00	lb/gal		
4. Equivalent Allowable Emissions :	6.00	lb/hour	21.00	tons/year
5. Method of Compliance : Material usdage recordkeeping.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Rule 62-296.513(2)(a)4., F.A.C., for other surface coatings.				

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM :		
SO2 :		
NO2 :		
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		
Not applicable		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 17

Surface Coating of Miscellaneous Metal Parts.

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3.N
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 18

Abrasive Blast Booth

Type of Emissions Unit Addressed in This Section

[X] 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, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Abrasive Blast Booth		
2. ARMS Identification Number : No Id		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 37
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : This emissions unit is used to prepare miscellaneous metal parts for surface coating. Emission unit is a "regulated" emission unit.		

Emissions Unit Information Section 18

Emissions Unit Control Equipment 1

1. Description : Fabric Filter
2. Control Device or Method Code : 18

Emissions Unit Information Section 18

Abrasive Blast Booth

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate : Units :		
4. Maximum Production Rate : Units :		
5. Operating Capacity Comment : This emissions unit is used to prepare miscellaneous metal parts for surface coating. The maximum production rate cannot be defined because of the great variability in the types of parts processed.		

Emissions Unit Information Section 18

Abrasive Blast Booth

Emissions Unit Operating Schedule

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

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 18

Abrasive Blast Booth

Rule Applicability Analysis

N/A

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 18

Abrasive Blast Booth

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 18

Abrasive Blast Booth

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	GCS-002	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	15	feet
7. Exit Diameter :	1.0	feet
8. Exit Temperature :	77	°F
9. Actual Volumetric Flow Rate :	7500	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :		dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 360.900 North (km) : 3075.000		
14. Emission Point Comment :		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 18

Abrasive Blast Booth

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Abrasive blast media	
2. Source Classification Code (SCC) : 3-09-002-01	
3. SCC Units : Tons Used	
4. Maximum Hourly Rate : 0.00	5. Maximum Annual Rate : 3.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 18

Abrasive Blast Booth

Pollutant Potential/Estimated Emissions : Pollutant 1

Revision 1, 07/18/97

1. Pollutant Emitted :	PM10			
2. Total Percent Efficiency of Control :	99.00	%		
3. Primary Control Device Code :	018			
4. Secondary Control Device Code :				
5. Potential Emissions :	1.29	lb/hour	5.63	tons/year
6. Synthetically Limited?	Y			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor :	0.02			
Units :	gr/scf			
Reference :	Manufacturer's Spec.			
9. Emissions Method Code :	2			
10. Calculations of Emissions :				
See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				
Emission Unit Pollutant Regulatory Codes:				
EL - PM				
WP - None				

E. POLLUTANT INFORMATION

Emissions Unit Information Section 18

Abrasive Blast Booth

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	99.00	%		
3. Primary Control Device Code :	018			
4. Secondary Control Device Code :				
5. Potential Emissions :	1.29	lb/hour	5.63	tons/year
6. Synthetically Limited?	Y			
7. Range of Estimated Fugitive/Other Emissions:			to	tons/year
8. Emissions Factor : 0.02 Units : gr/scf Reference : Manufacturer's Spec.				
9. Emissions Method Code :	2			
10. Calculations of Emissions : See Appendix C				
11. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section 18

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.03	gr/scf		
4. Equivalent Allowable Emissions :	1.94	lb/hour	8.45	tons/year
5. Method of Compliance : Abrasive blast media usage recordkeeping				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Rule 62-296.712(2), F.A.C.				

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 18

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	5 %
Exceptional Conditions :	%
Maximum Period of Excess Opacity Allowed :	min/hour
4. Method of Compliance :	
EPA Reference Method 9, once every 5 years.	
5. Visible Emissions Comment :	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 18

Abrasive Blast Booth

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM :	C	
SO2 :		
NO2 :		
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 18

Abrasive Blast Booth

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3.O
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :	Appendix A
14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)