

**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

Auburndale Cogeneration Facility
Derby Avenue, Auburndale, Polk County

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : Don Fields
Title : Executive Director

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

Organization/Firm : Auburndale Power Partners, Ltd.
Street Address : 1501 Derby Avenue
City : Auburndale
State : FL Zip Code : 33823-____

3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (813)965-1561 Fax : (813)965-1924

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the facility (non-Title V source) addressed in this Application for Air Permit or the responsible official, as defined in Chapter 62-213, 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. Further, I agree to operate and maintain the air pollutant emissions units and air pollution control equipment described in this application 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. If the purpose of this application is to obtain an air operation permit or operation permit revision for one or more emissions units which have undergone construction or modification, I 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. 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.*

Signature

Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID

Description of Emissions Unit

001

Combustion Turbine #1

No Id

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

*existing TV Source
commenced operation
prior to 10/25/95
operation commenced 3/25/94 or 7/94*

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 :

☐ 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 :
AC53-208321

☐ 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 Rule 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 :

Post-construction air operation permit application for a nominal 156 MW combined cycle combustion turbine (CT) cogeneration system.

Alterations from original design consist of a revision in equipment locations and change in height of the HRSG structure. The current equipment layout is shown on Document II.D.2 (Electronic Filename D_IID2.DXF). The CT/HRSG equipment is located more to the center of the plant property than originally premised. The heat recovery steam generator (HRSG) structure has increased in height by 3 meters.

2. Projected or Actual Date of Commencement of Construction :	01-Feb-1993
3. Projected Date of Completion of Construction :	01-Jul-1994

Professional Engineer Certification

1. Professional Engineer Name : Thomas W. Davis

Registration Number : 36777

2. Professional Engineer Mailing Address :

Organization/Firm : Environmental Consult. & Tech., Inc

Street Address : 3701 NW 98th Street

City : Gainesville

State : FL

Zip Code : 32606-____

3. Professional Engineer Telephone Numbers :

Telephone : (904)332-0444

Fax : (904)332-6722

4. Professional Engineer Statement :

I, the undersigned, hereby certified, except as particularly noted herein, that :*

(1) To the best of my knowledge, there is reasonable assurance (a) that the air pollutant emissions unit(s) and the air pollutant 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 in the Florida Statutes and rules of the Department of Environmental Protection; or (b) for any application for a TitleV source air operation permit, that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in the application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application;

(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; and

(3) For any application for an air construction permit for one or more proposed new or modified emissions units, 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.

Signature

Date

* Attach any exception to certification statement.

Application Contact**1. Name and Title of Application Contact :**

Name : Axel Santiago

Title : Associate Engineer

2. Application Contact Mailing Address :

Organization/Firm : Auburndale Power Partners, Ltd.

Street Address : 1501 Derby Avenue

City : Auburndale

State : FL

Zip Code : 33823-____

3. Application Contact Telephone Numbers :

Telephone : (813)965-1561

Fax : (813)965-1924

Application Comment

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Name, Location, and Type

1. Facility Owner or Operator : Auburndale Power Partners, Ltd. ✓			
2. Facility Name : Auburndale Cogeneration Facility ✓			
3. Facility Identification Number : 1050221 ✓			
4. Facility Location Information : Auburndale Cogeneration Facility Derby Avenue, Auburndale, Polk County Facility Address : 1501 Derby Avenue ✓ City : Auburndale County : Polk Zip Code : 33823-_____			
5. Facility UTM Coordinates : Zone : 17 ✓ East (km) : 420.80 ✓ North (km) : 3,103.30 ✓			
6. Facility Latitude/Longitude : Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :			
7. Governmental Facility Code : 0	8. Facility Status Code : A	9. Relocatable Facility? N	10. Facility Major Group SIC Code : 49
11. Applicant Comment :			
DEP Facility Comment :			

Facility SIC Codes

Facility SIC Codes :

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Property Boundary

UTM Coordinates :

Zone :	East :	km	North :	km
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Building Identification

Identification of Building on Plot Plan or Flow Diagram :

Building Height : FT

Building Boundary

UTM Coordinates :

Zone :	East :	km	North :	km
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Facility Contact

1. Name and Title of Facility Contact :

Name : Axel Santiago
Title : Associate Engineer

2. Facility Contact Mailing Address :

Organization/Firm : Auburndale Power Partners, Ltd.
Street Address : 1501 Derby Avenue
City : Auburndale
State : FL **Zip Code :** 33823-____

3. Facility Contact Telephone Numbers :

Telephone : (813)965-1561 **Fax :** (813)965-1924

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)?	N
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. Ozone SIP Facility?	
12. Annual Operating Report Required?	
13. Facility Regulatory Classifications Comment :	

B. FACILITY REGULATIONS

Rule Applicability Analysis

Not applicable

B. FACILITY REGULATIONS

List of Applicable Regulations

Regulation Type :

Regulation :

See Appendix A

C. FACILITY POLLUTANT INFORMATION

Facility Pollutant Information :

Pollutant 1

1. Pollutant Emitted :		
2. Estimated Emissions :	(tons/year)	
3. Requested Emissions Cap :	(lbs/hour)	(tons/year)
4. Basis for Emissions Cap Code :		
5. Facility Pollutant Comment :		
<p>All facility emission rates are addressed at the emission unit level.</p> <p>Major pollutants (Code A) consist of CO, NOX, and SO2.</p> <p>Pollutants which are synthetically limited to less than a major amount (Code SM) include PM10.</p> <p>Regulated pollutants (Code B - not major or synthetic minor), consist of VOC, H015 (arsenic), H021 (beryllium), FL (fluorides), H114 (mercury), SAM (sulfuric acid mist), and PB (lead).</p>		
Pollutant Classification Code :		
Regulation :		

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	II.D.1
2. Facility Plot Plan :	d_iid2.dxf
3. Process Flow Diagram(s) :	d_iid3.dxf
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	d_iid4.wp6
5. Fugitive Emissions Identification :	NA
6. Supplemental Information for Construction Permit Application :	NA

Additional Supplemental Requirements for Category I Applications Only

7. List of Insignificant Activities :	d_iid7.wp6
8. List of Equipment/Activities Regulated under Title VI :	d_iid8.wp6
9. Alternative Methods of Operation :	NA
10. Alternative Modes of Operation (Emissions Trading) :	NA
11. Enhanced Monitoring Plan :	NA
12. Risk Management Plan Verification :	NA
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

Combustion Turbine #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.

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

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 Section1**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section : Combustion Turbine #1		
Description of Emissions Unit for AIRS Trackin		
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 : 25-Mar-1994		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Westinghouse Model Number : 501D		
9. Generator Nameplate Rating : 156 MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
Emissions Unit Type Code :		
Ozone SIP Base Emissions Unit?		
11. Applicant Emissions Unit Comment : Generator nameplate rating is total for combustion turbine and heat recovery steam generator. Emissions unit is a "regulated" emissions unit.		
DEP Emissions Unit Comment :		

III. Part 2 1

Emissions Unit Information Section 1

Combustion Turbine #1

Emissions Unit Control Equipment 1

1. Description :

Steam injection for NOx control.

2. Control Device or Method Code : 28

Emissions Unit Information Section2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

Emissions Unit Control Equipment1**1. Description :**

Distillate fuel oil storage tanks are equipped with pressure/vacuum conservation vents.

2. Control Device or Method Code : 88

Emissions Unit Information Section1

Combustion Turbine #1

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	1253 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 heat input rate during natural gas firing at 31 oF.

Emissions Unit Information Section2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

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 :	Not applicable - unregulated emissions unit.

Emissions Unit Information Section

1

Combustion Turbine #1

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :

24 hours/day

52 weeks/year

7 days/week

8760 hours/year

?

Emissions Unit Information Section

2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

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

Combustion Turbine #1

Rule Applicability Analysis

Not applicable

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

Rule Applicability Analysis

Not applicable

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 1

List of Applicable Regulations

Regulation Type :

Regulation :
See Appendix A

III. Part 6b - 1

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

List of Applicable Regulations

Regulation Type :

Regulation :
See Appendix A

III. Part 6b - 2

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

List of Applicable Regulations

III. Part 6b - 3

DEP Form No. 62-210.900(1) - Form

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section

1

Combustion Turbine #1

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	CT-001
2. Emission Point Type Code :	1
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 :	V
6. Stack Height :	160 feet
7. Exit Diameter :	18.0 feet
8. Exit Temperature :	203 °F
9. Actual Volumetric Flow Rate :	839747 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) :
Good Engineering Practice Stack Height :	
14. Emission Point Comment :	Exhaust data based on natural gas firing at 100% load and 72 oF ambient temperature.

III. Part 7a - 2

DEP Form No. 62-210.900(1) - Form

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion turbine fired with natural gas.	
2. Source Classification Code (SCC) : 2-01-002-01	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 1.25	Hourly Rate Limit :
5. Maximum Annual Rate : 10,976.00	Annual Rate Limit :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	Percent Sulfur Limit :
8. Maximum Percent Ash :	
9. Million Btu per SCC Unit : 1,000	
10. Segment Comment :	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion turbine fired with No. 2 fuel oil .	
2. Source Classification Code (SCC) : 2-01-001-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 9.56	Hourly Rate Limit :
5. Maximum Annual Rate : 3,824.00	Annual Rate Limit :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.05	Percent Sulfur Limit :
8. Maximum Percent Ash : 0.01	
9. Million Btu per SCC Unit : 131	
10. Segment Comment : Operation using No. 2 fuel oil is limited to 400 hrs/yr.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : NOX		
2. Total Percent Efficiency of Control :		75.0 %
3. Primary Control Device Code :		028
4. Secondary Control Device Code :		
5. Potential Emissions :		230.0000 lb/hour 593.2000 tons/year
6. Synthetically Limited? Y <input checked="" type="checkbox"/>		
7. Range of Estimated Fugitive/Other Emissions:		to tons/year
8. Emissions Factor : 0.18370 Units : lb/MMBtu Reference : Westinghouse, 1992		
9. Emissions Method Code : 5		
10. Calculations of Emissions : See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment : Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on prorated combustion of natural gas (8,360 hrs/yr) and No. 2 fuel oil (400 hrs/yr). Use of No. 2 oil is limited to 400 hrs/yr. Pollutant is an emissions-limited pollutant.		

III. Part 9 - 1

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1

Combustion Turbine #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 :		25.00000 ✓	ppmvd @ 15% O2
4. Equivalent Allowable Emissions :		131.0000 lb/hour ✓	573.7999 ✓ tons/year
5. Method of Compliance :			
Annual test using EPA Reference Method 20.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing. FDEP Rule 62-212.410, F.A.C., (BACT).			

Emissions Unit Information Section 1

Combustion Turbine #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 :	15.00000	✓ ppmvd @ 15% O ₂
4. Equivalent Allowable Emissions :	78.5999 ✓ lb/hour	344.3000 ✓ tons/year
5. Method of Compliance : Annual test using EPA Reference Method 20 following effective date of emission limitation..		
Method of Compliance Code :		
Frequency Base Date (DD-MON-YYYY) :		
Compliance Test Frequency :		
Regulation :		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing. Emission limits becomes effective 9/30/97. FDEP Rule 62-212.410, F.A.C., (BACT).		

Emissions Unit Information Section 1

Combustion Turbine #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 :	42.00000	ppmvd @ 15% O2
4. Equivalent Allowable Emissions :	230.0000 lb/hour ✓	46.0000 ✓ tons/year
5. Method of Compliance : None required per FDEP policy - liquid fuel will not be burned for more than 400 hours per year.		
Method of Compliance Code :		
Frequency Base Date (DD-MON-YYYY) :		
Compliance Test Frequency :		
Regulation :		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 oil firing. Firing of No. 2 oil is limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).		

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : SO2		
2. Total Percent Efficiency of Control :		0.0 %
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	63.2000 lb/hour	✓ 170.2000 tons/year
6. Synthetically Limited? Y		
7. Range of Estimated Fugitive/Other Emissions:		to tons/year
8. Emissions Factor : 0.05050 Units : lb/MMBtu Reference : AP-42, EPA, 1995		
9. Emissions Method Code : 3		
10. Calculations of Emissions : See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment : Emission factor based on use of 0.05 weight percent sulfur. Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on prorated combustion of natural gas (8,360 hrs/yr) and No. 2 fuel oil (400 hrs/yr). Use of No. 2 oil is limited to 400 hrs/yr. Pollutant is an emissions-limited pollutant.		

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		40.00000	✓ lb/hr
4. Equivalent Allowable Emissions :		40.0000 lb/hour ✓	175.2000 ✓ tons/year
5. Method of Compliance :			
Annual calculation using 0.0006 lb SO ₂ /MMBtu emission factor.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing. FDEP Rule 62-212.410, F.A.C., (BACT).			

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 5

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		RULE	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		70.00000	✓ lb/hr
4. Equivalent Allowable Emissions :		70.0000 lb/hour	✓ 14.0000 tons/year
5. Method of Compliance :			
None required per FDEP policy - liquid fuel will not be burned for more than 400 hours per year.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 oil-firing. Use of No. 2 oil is limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).			

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : PM10		
2. Total Percent Efficiency of Control :		0.0 %
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	36.7999 lb/hour	51.3000 tons/year
6. Synthetically Limited? Y		
7. Range of Estimated Fugitive/Other Emissions:		to tons/year
8. Emissions Factor : 0.02940 Units : lb/MMBtu Reference : Westinghouse, 1992		
9. Emissions Method Code : 5		
10. Calculations of Emissions : See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment : Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on prorated combustion of natural gas (8,360 hrs/yr) and No. 2 fuel oil (400 hrs/yr). Operation on No. 2 oil is limited to 400 hrs/yr. PM10 emissions assumed to be equivalent to PM emissions. Pollutant is an emissions-limited pollutant.		

Emissions Unit Information Section 1

Combustion Turbine #1

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 :		10.50000 ✓	lb/hr
4. Equivalent Allowable Emissions :		10.5000 lb/hour ✓	46.0000 ✓ tons/year
5. Method of Compliance : Annual test using <u>EPA Reference Method 5 or 17</u> is waived as long as opacity emissions do not exceed 10 percent per Specific Condition No. 9 of Permit AC53-208321.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing. FDEP Rule 62-212.410, F.A.C., (BACT).			

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 4**Allowable Emissions** 2

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	36.79999	✓	lb/hr
4. Equivalent Allowable Emissions :	36.7999 lb/hour	✓	7.3600 tons/year
5. Method of Compliance :	None required per 62-297.340(e), F.A.C. - liquid fuel will not be burned for more than 400 hours per year.		
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 oil-firing. Use of No. 2 oil is limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).		

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 11

1. Pollutant Emitted : PM		
2. Total Percent Efficiency of Control :		0.0 %
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	36.7999 lb/hour	51.3000 tons/year
6. Synthetically Limited? Y		
7. Range of Estimated Fugitive/Other Emissions:		to tons/year
8. Emissions Factor : 0.02940 Units : lb/MMBtu Reference : Westinghouse, 1992.		
9. Emissions Method Code : 5		
10. Calculations of Emissions : See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment : Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on prorated combustion of natural gas (8,360 hrs/yr) and No. 2 fuel oil (400 hrs/yr). Operation on No. 2 oil is limited to 400 hrs/yr.		

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted :	VOC	
2. Total Percent Efficiency of Control :	0.0 %	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	10.0000 lb/hour	27.1000 tons/year
6. Synthetically Limited?	Y	
7. Range of Estimated Fugitive/Other Emissions:	to tons/year	
8. Emissions Factor :	0.00800	
Units :	lb/MMBtu	
Reference :	Westinghouse, 1992	
9. Emissions Method Code :	5	
10. Calculations of Emissions :	See Appendix C	
11. Pollutant Potential/Estimated Emissions Comment :	<p>Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on prorated combustion of natural gas (8,360 hrs/yr) and No. 2 fuel oil (400 hrs/yr). Use of No. 2 fuel oil is limited to 400 hrs/yr. Pollutant is an emissions-limited pollutant.</p>	

Emissions Unit Information Section 1

Combustion Turbine #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 :	6.00000 lb/hr
4. Equivalent Allowable Emissions :	6.0000 lb/hour ✓ 26.3000 ✓ tons/year
5. Method of Compliance : Annual calculation using emission factors and fuel consumption data.	
Method of Compliance Code :	
Frequency Base Date (DD-MON-YYYY) :	
Compliance Test Frequency :	
Regulation :	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing. FDEP Rule 62-212.410, F.A.C. (BACT).	

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 2**Allowable Emissions** 2

1. Basis for Allowable Emissions Code : RULE	
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	10.00000 ✓ lb/hr
4. Equivalent Allowable Emissions :	10.0000 lb/hour ✓ 2.0000 ✓ tons/year
5. Method of Compliance : None required per FDEP policy - liquid fuel will not be burned for more than 400 hours per year.	
Method of Compliance Code :	
Frequency Base Date (DD-MON-YYYY) :	
Compliance Test Frequency :	
Regulation :	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 oil-firing. Use of No. 2 oil is limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : CO		
2. Total Percent Efficiency of Control : 0.0 %		
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	73.0000 lb/hour	196.4000 tons/year
6. Synthetically Limited? Y		
7. Range of Estimated Fugitive/Other Emissions:		
	to	tons/year
8. Emissions Factor : 0.05830 Units : lb/MMBtu Reference : Westinghouse, 1992		
9. Emissions Method Code : 5		
10. Calculations of Emissions :		
See Appendix C.		
11. Pollutant Potential/Estimated Emissions Comment :		
Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on prorated combustion of natural gas (8,360 hrs/yr) and No. 2 fuel oil (400 hrs/yr). Use of No. 2 oil is limited to 400 hrs/yr Pollutant is an emissions-limited pollutant.		

Emissions Unit Information Section 1

Combustion Turbine #1

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 :	15.00000 ✓ ppmvd
4. Equivalent Allowable Emissions :	43.5000 lb/hour ✓ 190.5000 tons/year
5. Method of Compliance : Annual test using EPA Reference Method 10.	
Method of Compliance Code :	
Frequency Base Date (DD-MON-YYYY) :	
Compliance Test Frequency :	
Regulation :	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing at base load. FDEP Rule 62-212.410, F.A.C., (BACT).	

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 3

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		RULE	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		21.00000	ppmvd
4. Equivalent Allowable Emissions :		43.5000 lb/hour ✓	190.5000 tons/year ✓
5. Method of Compliance : Annual test using EPA Reference Method 10.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing at minimum load. FDEP Rule 62-212.410, F.A.C., (BACT).			

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 3**Allowable Emissions** 3

1. Basis for Allowable Emissions Code :		RULE	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		25.00000 ✓	ppmvd
4. Equivalent Allowable Emissions :		73.0000 lb/hour ✓	14.6000 ✓ tons/year
5. Method of Compliance : None required per FDEP policy - liquid fuel will not be burned for more than 400 hours per year.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 oil-firing. Use of No. 2 oil is limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).			

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 10

1. Pollutant Emitted : PB		
2. Total Percent Efficiency of Control :		0.0 %
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	0.0726 lb/hour	0.0145 tons/year
6. Synthetically Limited? Y		
7. Range of Estimated Fugitive/Other Emissions:		to tons/year
8. Emissions Factor : 0.00005 Units : lb/MMBtu Reference : AP-42, EPA, 1995		
9. Emissions Method Code : 3		
10. Calculations of Emissions : See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment : Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on combustion of No. 2 fuel oil (400 hrs/yr). Pollutant is an emissions-limited pollutant		

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 10**Allowable Emissions** 1

1. Basis for Allowable Emissions Code :		RULE	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		0.00010 ✓	lb/MMBtu
4. Equivalent Allowable Emissions :		0.1300 lb/hour ✓	0.0260 ✓ tons/year
5. Method of Compliance :			
None required per FDEP policy - liquid fuel will not be burned for more than 400 hours per year.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 oil firing. Use of No. 2 oil is limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).			

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 9

1. Pollutant Emitted :	SAM	
2. Total Percent Efficiency of Control :	0.0 %	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	13.0000 lb/hour	34.7999 tons/year
6. Synthetically Limited?	Y	
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor :	0.01060	
Units :	lb/MMBtu	
Reference :	Westinghouse, 1992.	
9. Emissions Method Code :	2	
10. Calculations of Emissions :	See Appendix C	
11. Pollutant Potential/Estimated Emissions Comment :	Hourly emission rate based on No. 2 fuel oil firing. Annual emissions based on prorated combustion of natural gas (8,360 hrs/yr) and No. 2 fuel oil (400 hrs/yr) Pollutant is an emissions-limited pollutant.	

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 9

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		7.50000	✓ lb/hr
4. Equivalent Allowable Emissions :		7.5000 lb/hour	✓ 32.9000 ✓ tons/year
5. Method of Compliance :			
Annual calculation using emission factor and fuel consumption data.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing. FDEP Rule 62-212.410, F.A.C., (BACT).			

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 9**Allowable Emissions** 2

1. Basis for Allowable Emissions Code :		RULE	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		14.00000	✓ lb/hr
4. Equivalent Allowable Emissions :		14.0000 lb/hour	✓ 2.8000 ✓ tons/year
5. Method of Compliance :			
None required per FDEP policy - liquid fuel will not be burned for more than 400 hours per year.			
Method of Compliance Code :			
Frequency Base Date (DD-MON-YYYY) :			
Compliance Test Frequency :			
Regulation :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 oil-firing. Use of No. 2 oil is limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).			

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 8

1. Pollutant Emitted :	H114	
2. Total Percent Efficiency of Control :	0.0 %	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	0.0011 lb/hour	0.0002 tons/year
6. Synthetically Limited?	Y	
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor :	0.00000	
Units :	lb/MMBtu	
Reference :	AP-42, EPA 1995	
9. Emissions Method Code :	3	
10. Calculations of Emissions :	See Appendix C	
11. Pollutant Potential/Estimated Emissions Comment :	<p>Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on combustion of No. 2 fuel oil (400 hrs/yr). Pollutant is an emissions-limited pollutant. Emission factor for <u>mercury compounds</u> is 0.00000091 lb/MMBtu.</p>	

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 8**Allowable Emissions** 1

1. Basis for Allowable Emissions Code :	OTHER	
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	0.00001	✓ lb/MMBtu
4. Equivalent Allowable Emissions :	0.0010 lb/hour	✓ 0.0600 tons/year
5. Method of Compliance :	None required per FDEP letter dated June 17, 1994.	
Method of Compliance Code :		
Frequency Base Date (DD-MON-YYYY) :		
Compliance Test Frequency :		
Regulation :		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during natural gas firing. No underlying FDEP rule.	

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 8**Allowable Emissions** 2

1. Basis for Allowable Emissions Code : OTHER		
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	0.00000	lb/MMBtu
4. Equivalent Allowable Emissions :	0.0040 lb/hour ✓	0.0008 ✓ tons/year
5. Method of Compliance : None required by FDEP letter dated June 17, 1994.		
Method of Compliance Code :		
Frequency Base Date (DD-MON-YYYY) :		
Compliance Test Frequency :		
Regulation :		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 oil-firing. Use of No. 2 oil is limited to 400 hrs/yr. No underlying FDEP rule. Requested allowable emission rate is 0.000003 lb/MMBtu.		

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 12

1. Pollutant Emitted : FL		
2. Total Percent Efficiency of Control :		0.0 %
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	0.0400 lb/hour	0.0080 tons/year
6. Synthetically Limited? Y		
7. Range of Estimated Fugitive/Other Emissions:		to tons/year
8. Emissions Factor : 0.00003 Units : lb/MMBtu Reference : EPA, 1989.		
9. Emissions Method Code : 5		
10. Calculations of Emissions : See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment : Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on combustion of No. 2 fuel oil (400 hrs/yr). Pollutant is an emissions-limited pollutant.		

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 12**Allowable Emissions** 1

1. Basis for Allowable Emissions Code :	OTHER	
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	0.00003	lb/MMBtu
4. Equivalent Allowable Emissions :	0.0400 lb/hour	0.0080 tons/year
5. Method of Compliance :	None required per FDEP policy - liquid fuel will not be burned for more than 400 hours per year.	
Method of Compliance Code :		
Frequency Base Date (DD-MON-YYYY) :		
Compliance Test Frequency :		
Regulation :		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 fuel oil firing. Use of No. 2 fuel oil is limited to 400 hrs/yr. No underlying FDEP rule.	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 7

1. Pollutant Emitted : H021		
2. Total Percent Efficiency of Control :		0.0 %
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	0.0004 lb/hour	0.0000 tons/year
6. Synthetically Limited? Y		
7. Range of Estimated Fugitive/Other Emissions:		to tons/year
8. Emissions Factor : 0.00000 Units : lb/MMBtu Reference : AP-42, EPA, 1995		
9. Emissions Method Code : 3		
10. Calculations of Emissions : See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment : Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on combustion of No. 2 fuel oil (400 hrs/yr). Pollutant is an <u>emissions-limited pollutant</u> . Emission factor for <u>beryllium compounds</u> is 0.00000033 lb/MMBtu.		

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 7**Allowable Emissions** 1

1. Basis for Allowable Emissions Code : RULE		
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	0.00000	lb/MMBtu
4. Equivalent Allowable Emissions :	0.0030 lb/hour	✓ 0.0006 ✓ tons/year
5. Method of Compliance : None required per FDEP letter dated June 17, 1994.		
Method of Compliance Code :		
Frequency Base Date (DD-MON-YYYY) :		
Compliance Test Frequency :		
Regulation :		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 fuel oil firing. Requested allowable emission rate is 0.000002 lb/MMBtu. Use of No. 2 oil is limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).		

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : H015		
2. Total Percent Efficiency of Control : 0.0 %		
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions : 0.0061 lb/hour 0.0012 tons/year		
6. Synthetically Limited? Y		
7. Range of Estimated Fugitive/Other Emissions: to tons/year		
8. Emissions Factor : 0.00000 Units : lb/MMBtu Reference : AP-42, EPA, 1995		
9. Emissions Method Code : 3		
10. Calculations of Emissions : See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment : Hourly emission rate based on No. 2 fuel oil combustion. Annual emissions based on combustion of No. 2 fuel oil (400 hrs/yr). Pollutant is an emissions-limited pollutant. Emission factor for <u>arsenic compounds</u> is 0.0000049 lb/MMBtu.		

Emissions Unit Information Section 1

Combustion Turbine #1

Pollutant Information Section 6**Allowable Emissions** 1

1. Basis for Allowable Emissions Code : RULE		
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	0.00016	lb/MMBtu
4. Equivalent Allowable Emissions :	0.2000 lb/hour ✓	0.0400 ✓ tons/year
5. Method of Compliance : None required per FDEP policy - liquid fuel will not be burned for more than 400 hours per year.		
Method of Compliance Code :		
Frequency Base Date (DD-MON-YYYY) :		
Compliance Test Frequency :		
Regulation :		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Per Specific Condition No. 1 of Permit AC53-208321. Emission limits applicable during No. 2 fuel oil firing. Use of No. 2 oil limited to 400 hrs/yr. FDEP Rule 62-212.410, F.A.C., (BACT).		

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #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 :	10 %
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 :	
Per Specific Condition No. 2 of Permit AC53-208321.	
Allowable opacity applies at full load.	
FDEP Rule 62-212.410, F.A.C., (BACT).	
Compliance Test Frequency :	
Frequency Base Date (DD-MON-YYYY) :	
COM Required?	
Regulation :	

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Visible Emissions Limitation : Visible Emissions Limitation 2

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 :	
Annual test using EPA Reference Method 9.	
5. Visible Emissions Comment :	
Per Specific Condition No. 2 of Permit AC53-208321.	
Allowable opacity applies at partial loads.	
FDEP Rule 62-212.410, F.A.C., (BACT).	
Compliance Test Frequency :	
Frequency Base Date (DD-MON-YYYY) :	
COM Required?	
Regulation :	

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	NOX
2. CMS Requirement :	RULE CMS Requirement Code :
3. Monitor Information :	Manufacturer : Thermo Environmental Model Number : 42H Serial Number : 42H-48620-281
4. Installation Date :	24-Mar-1994
5. Performance Specification Test Date :	09-Aug-1995
6. Continuous Monitor Comment :	Required by Specific Condition No. 16 of Permit AC53-208321 and by 40 CFR Part 75.
Performance Specification Test Status :	
Certification Date (DD-MON-YYYY) :	

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	WTF		
2. CMS Requirement :	RULE	CMS Requirement Code :	
3. Monitor Information :	Manufacturer : Westinghouse Model Number : WDPF 7.1 FF .1 Serial Number : N/A		
4. Installation Date :	31-Jan-1994		
5. Performance Specification Test Date :	04-Jun-1994		
6. Continuous Monitor Comment :	Required by 40 CFR 60 Subpart GG.		
Performance Specification Test Status :			
Certification Date (DD-MON-YYYY) :			

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Combustion Turbine #1

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code :	O2		
2. CMS Requirement :	RULE	CMS Requirement Code :	
3. Monitor Information :	Manufacturer : Rosemount Model Number : 755R Serial Number : 1000297		
4. Installation Date :	24-Mar-1994		
5. Performance Specification Test Date :	09-Aug-1995		
6. Continuous Monitor Comment :	Required by 40 CFR Part 75.		
Performance Specification Test Status :			
Certification Date (DD-MON-YYYY) :			

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

Emissions Unit Information Section 1

Combustion Turbine #1

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.
- ☐ 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 : C

4. Baseline Emissions :

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

5. PSD Comment :

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

Emissions Unit Information Section 2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

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

1

Combustion Turbine #1

Supplemental Requirements for All Applications

1. Process Flow Diagram :	d_iid3.dxf
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	d_iii4.wp6
5. Compliance Test Report :	d_iii5.wp6
6. Procedures for Startup and Shutdown :	d_iii6.wp6
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	append_a.wp6

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	d_iii10.wp6
11. Alternative Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	III.I.12

13. Identification of Additional Applicable Requirements :

append_a.wp6

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

Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) :

III.I.14

Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) :

New Unit Exemption (Form No. 62-210.900(1)(a)2.) :

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

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

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 : Distillate Fuel Oil Storage Tanks STR-001 and STR-002		
Description of Emissions Unit for AIRS Trackin		
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		
Emissions Unit Type Code :		
Ozone SIP Base Emissions Unit?		
11. Applicant Emissions Unit Comment : Distillate fuel oil storage tanks STR-001 and STR-002 qualify as a group of unregulated process units and therefore the two tanks are classified as an unregulated emissions unit. Estimated emissions from STR-001 and STR-002 are collectively below significant amounts; i.e., less than 5 tons per year of VOC.		
DEP Emissions Unit Comment :		

Emissions Unit Information Section 2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

Emissions Unit Control Equipment 1

1. Description :

Distillate fuel oil storage tanks are equipped with pressure/vacuum conservation vents.

2. Control Device or Method Code : 88

Emissions Unit Information Section 2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

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 :	Not applicable - unregulated emissions unit.

Emissions Unit Information Section 2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

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

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

Rule Applicability Analysis

Not applicable

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

List of Applicable Regulations

Regulation Type :

Regulation :
See Appendix A

III. Part 6b - 1

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

List of Applicable Regulations

III. Part 6b - 2

DEP Form No. 62-210.900(1) - Form

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section

2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	STR-001 and STR-002	
2. Emission Point Type Code :		
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 :		
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) :
Good Engineering Practice Stack Height :		
14. Emission Point Comment :	Not applicable - unregulated emissions unit.	

III. Part 7a - 2

DEP Form No. 62-210.900(1) - Form

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section

2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :	
Distillate fuel oil storage tank breathing losses.	
2. Source Classification Code (SCC) : 4-03-010-19	
3. SCC Units : Thousand Gallons Stored	
4. Maximum Hourly Rate : 0.00	Hourly Rate Limit :
5. Maximum Annual Rate : 0.00	Annual Rate Limit :
6. Estimated Annual Activity Factor : 1,000.00	
7. Maximum Percent Sulfur :	Percent Sulfur Limit :
8. Maximum Percent Ash :	
9. Million Btu per SCC Unit :	
10. Segment Comment :	
Field 6, Estimated Annual Activity Factor, has units of thousand gallons stored and represents the total storage capacity of STR-001 and STR-002.	
Total storage capacity of STR-001 and STR-002 (Field 6) is 1,000,000 gallons.	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :	
2. Source Classification Code (SCC) : 4-03-010-21	
3. SCC Units : Thousand Gallons Transferred or Handled	
7,641.00	

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

Distillate fuel oil storage tank working losses.

- | | |
|---------------------------------------|------------------------|
| 4. Maximum Hourly Rate : | Hourly Rate Limit : |
| 5. Maximum Annual Rate : | Annual Rate Limit : |
| 6. Estimated Annual Activity Factor : | |
| 7. Maximum Percent Sulfur : | Percent Sulfur Limit : |
| 8. Maximum Percent Ash : | |
| 9. Million Btu per SCC Unit : | |
| 10. Segment Comment : | |

Maximum hourly rate (Field 4) is not applicable for fixed roof storage tank working losses. Maximum annual rate (Field 5) represents total annual throughput for STR-001 and STR-002.

Maximum annual total throughput rate (Field 5) for STR-001 and STR-002 is 7,641,112 gallons.

E. POLLUTANT INFORMATION

Emissions Unit Information Section _____

Pollutant Potential/Estimated Emissions : Pollutant _____

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 :		
Method of Compliance Code :		
Frequency Base Date (DD-MON-YYYY) :		
Compliance Test Frequency :		
Regulation :		
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 :	
Compliance Test Frequency :	
Frequency Base Date (DD-MON-YYYY) :	
COM Required?	
Regulation :	

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section _____

Continuous Monitoring System : Continuous Monitor _____

1. Parameter Code :	
2. CMS Requirement :	CMS Requirement Code :
3. Monitor Information : Manufacturer : Model Number : Serial Number :	
4. Installation Date :	
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
Performance Specification Test Status :	
Certification Date (DD-MON-YYYY) :	

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

Emissions Unit Information Section 2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

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
SO ₂ :	lb/hour	tons/year
NO ₂ :		tons/year

5. PSD Comment :

Not applicable.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

Distillate Fuel Oil Storage Tanks STR-001 and STR-002

Supplemental Requirements for All Applications

1. Process Flow Diagram :	d_iid3.dxf
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 Statute :	append_a.wp6

Additional Supplemental Requirements for Category I Applications Only

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

13. Identification of Additional Applicable Requirements :

append_a.wp6

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

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.) : NA



Environmental Consulting & Technology, Inc.

February 27, 1996

ECT No. 94677-0430-1100

Mr. Scott Sheplak, P.E.
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

**Re: Auburndale Cogeneration Facility
Title V Permit Application**

Dear Mr. Sheplak:

Pursuant to our recent telephone conversation regarding the above referenced project, a hardcopy of electronic files D_IID8.WP6 (List of Equipment/Activities Regulated Under Title VI) and D_III6.WP6 (Procedures for Startup and Shutdown) are enclosed as requested.

Please call me at (352) 332-6230, Ext. 351 if you have any further questions or comments regarding the Auburndale Cogeneration Facility Title V permit application.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Thomas W. Davis, P.E.
Senior Engineer

Enclosures

Copy SWD

3701 Northwest
98th Street
Gainesville, FL
32606

(352)
332-0444

FAX (352)
332-6722

working file
RECEIVED

FEB 28 1996

**BUREAU OF
AIR REGULATION**

**LIST OF EQUIPMENT/ACTIVITIES
REGULATED UNDER TITLE VI**

The Auburndale Cogeneration Facility includes three air conditioning units that contain greater than fifty pounds of Title VI regulated refrigerant charge. These units are located as follows:

- Unit #1 - Main Generation Building
- Unit #2 - Main Generation Building
- Unit #3 - Zero Discharge Facility

PROCEDURES FOR COMBUSTION TURBINE STARTUP AND SHUTDOWN

A. STARTUP

- Operator resets all trips and checks permissives from the WDPF (Westinghouse Distributed Processing Family) control;
- Operator initiates a start on the combustion turbine starting motor using the WDPF control; and
- Operator then verifies the following sequence of automatic events:
 - Turbine electric starting motor engages which turns the combustion turbine (CT) to a speed of approximately 900 revolutions per minute (RPM)
 - Under proper conditions, the combustors are ignited.
 - Starting motor continues to accelerate the CT
 - Starting motor disengages at approximately 2,600 RPM
 - Fuel natural gas system delivers proper supply of fuel to the combustion chamber to raise the synchronous speed to approximately 3,600 RPM
 - A field is obtained and the generator breaker closes in synchronization with the grid
 - After sufficient steam pressure is obtained within the heat recovery steam generator (HRSG) high pressure drum, steam is injected to the CT to control emissions of nitrogen oxides (NO_x)

B. SHUTDOWN

- Operator executes CT normal stop from the CT start overview screen in the WDPF control;
- CT then starts to decrease load (ramp down) at approximately three megawatts (MW) per minute;
- When minimum load of approximately six MW is achieved, the generator breaker is opened and a 180 second cool down timer is started;
- Once cool down is complete, fuel valves close, bleed valves open, inlet guide vanes close, and the field breaker opens;
- Turning gear is energized at a CT speed of approximately 225 RPM; and
- At zero RPM, the CT remains in turning gear.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for the Auburndale Cogeneration Facility (Page 1 of 12)

Regulation	Citation	Not Applicable	Applicable Emission Source	Applicable Requirement or Nonapplicability Rationale
40 CFR Part 60 - Standards of Performance for New Stationary Sources				
<i>Subpart A - General Provisions</i>				
Notification and Record-keeping	§60.7(a)		CT/HRSG	Notification requirements (historical)
Notification and Record-keeping	§60.7(b) - (h) ✓		Same as above	General recordkeeping and reporting requirements.
Performance Tests	§60.8 60.8e ✓		Same as above	Conduct initial performance tests (historical) and as required by EPA.
Compliance with Standards	§60.11 ✓		Same as above	General compliance requirements. Addresses requirements for visible emissions tests. (§60.11(e) is historical)
Circumvention	§60.12 ✓		Same as above	Cannot conceal an emission which would otherwise constitute a violation of an applicable standard.
Monitoring Requirements	§60.13(a), (b), (i)		Same as above	General requirements pertaining to continuous monitoring systems.
General notification and reporting requirements	§60.19		Same as above	General procedures regarding reporting deadlines.

40 CFR Part 60 Subpart Kb - Standards of Performance for Volatile Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984

Recordkeeping	§60.116b(b) ✓		STR-001 STR-002	<p>The No. 2 fuel storage tanks located at the Auburndale Cogeneration Facility each has a capacity greater than 151 m³ (40,000 gal) and stores a liquid with a maximum true vapor pressure less than 3.5 kPa (0.50 psia). With the exception of §60.116b(b) and (c), such storage tanks are exempt from the General Provisions (Part 60, Subpart A) and provisions of Subpart Kb pursuant to §60.110b(c). §60.116b(b) requires that records showing the dimensions of the storage tanks and an analysis of tank capacity be maintained and readily accessible onsite. §60.116b(c) is not applicable because it only applies to storage vessels either with a design capacity greater than or equal to 151 m³ storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m³ but less than 151 m³ storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa.</p>
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40 CFR Part 60 Subpart GG - Standards of Performance for Stationary Gas Turbines

Standards for Nitrogen Oxides	§60.332(a)(1)		CT/HRSG	Establishes NO _x limit of 75 ppmv at 15% O ₂ (with corrections for heat rate and fuel bound nitrogen) for electric utility stationary gas turbines with peak heat input greater than 100 MMBtu/hr.
Standards for Sulfur Dioxide	§60.333		CT/HRSG	Establishes exhaust gas SO ₂ limit of 0.015 percent by volume (at 15% O ₂ , dry) and maximum fuel sulfur content of 0.8 percent by weight.
Monitoring Requirements	§60.334(a) ✓		CT/HRSG	Requires continuous monitoring of fuel consumption and ratio of water to fuel being fired in the turbine. Monitoring system must be accurate to ± 5.0 percent.
Monitoring Requirements	§60.334(b) ✓		CT/HRSG	Requires periodic monitoring of fuel sulfur and nitrogen content.
Test Methods and Procedures	§60.335 ~		CT/HRSG	Specifies monitoring procedures and test methods.
40 CFR Part 60 - Standards of Performance for New Stationary Sources: Subparts B, C, Ca, Cb, D, Da, Db, Dc, E, Ea, F, G, H, I, J, K, Ka, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, AAA, BBB, DDD, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, and VVV		X		None of the listed NSPS's contain requirements which are applicable to the Auburndale Cogeneration Facility.
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants: Subparts A, B, C, D, E, F, H, I, J, K, L, M, N, O, P, Q, R, T, V, W, Y, BB, and FF		X		None of the listed NESHAPS' contain requirements which are applicable to the Auburndale Cogeneration Facility.
40 CFR Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories: Subparts A, B, D, E, F, G, H, I, L, Q, T, and EE		X		None of the listed NESHAPS' contain requirements which are applicable to the Auburndale Cogeneration Facility. In particular, Subpart Q is not applicable because cooling towers operated with chromium-based water treatment chemicals are not utilized. Subpart T is not applicable because cleaning units using halogenated HAP solvents are not used.
40 CFR Part 72 - Acid Rain Program Permits				

Subpart A - Acid Rain Program General Provisions

Standard Requirements	§72.9, excluding (c)(3)(i),(ii), and (iv).		CT/HRSG	General Acid Rain Program requirements. SO ₂ allowance program requirements start January 1, 2000.
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Subpart B - Designated Representative

Designated Representative	§72.20 - §72.25		CT/HRSG	General requirements pertaining to the Designated Representative.
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Subpart C - Air Rain Application

Requirements to Apply	§72.30(a)		CT/HRSG	Requirement to submit a complete Acid Rain permit application by the applicable deadline.
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Requirements to Apply	§72.30(b)(2)(ii)		CT/HRSG	Deadline to submit a complete Acid Rain permit application is 24 months before the later of January 1, 2000 or the date on which the unit commences operation.
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Requirements to Apply	§72.30(c)		CT/HRSG	Requirement to submit a complete Acid Rain permit application for each source with an affected unit at least 6 months prior to the expiration of an existing Acid Rain permit governing the unit during Phase II or such longer time as may be approved under part 70 of this chapter that ensures that the term of the existing permit will not expire before the effective date of the permit for which the application is submitted.
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Tom

Acid Rain CFR

Requirements to Apply	§72.30(d)		CT/HRSG	Requirement to submit an original and three copies of all permit applications, where the EPA is not the permitting authority, to the State (FDEP) permitting authority.
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Information Requirements for Acid Rain Permit Applications	§72.31		CT/HRSG	General permit application requirements.
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Subpart D - Acid Rain Compliance Plan and Compliance Options

General	§72.40		CT/HRSG	General compliance plan requirements.
<i>Subpart I - Compliance Certification</i>				
Annual Compliance Certification Report	§72.90		CT/HRSG	Requirement to submit an annual compliance report.
40 CFR Part 75 - Continuous Emission Monitoring				
<i>Subpart A - General</i>				
Compliance Dates	§75.4(a)(1)		CT/HRSG	Requirement to complete all certification tests for CEMS by specified deadlines. For a gas-fired Phase II unit or an oil-fired Phase II unit, the deadline is January 1, 1995, except that certification tests for continuous emission monitoring systems for NO _x and CO ₂ or excepted monitoring systems for NO _x under Appendix E or CO ₂ estimation under Appendix G of this part shall be completed not later than January 1, 1996.
Prohibitions	§75.5		CT/HRSG	General monitoring prohibitions.
<i>Subpart B - Monitoring Provisions</i>				
General Operating Requirements	§75.10		CT/HRSG	General monitoring requirements.
Specific Provisions for Monitoring SO ₂ Emissions	§75.11(d)(2)		CT/HRSG	SO ₂ monitoring requirements (Appendix D) for gas- and oil-fired units.
Specific Provisions for Monitoring NO _x Emissions	§75.12(a),(b)		CT/HRSG	NO _x continuous monitoring requirements for gas- and oil-fired nonpeaking units.
Specific Provisions for Monitoring CO ₂ Emissions	§75.13(a)		CT/HRSG	CO ₂ continuous monitoring requirements.
Specific Provisions for Monitoring Opacity	§75.14(c), (d)		CT/HRSG	Exemptions from opacity continuous monitoring requirements for gas- and diesel-fired units.
<i>Subpart C - Operation and Maintenance Requirements</i>				

ref to § 75.4(a)(1)

Certification and Recertification Procedures	§75.20(a)		CT/HRSG	Requires that monitoring systems meet initial certification requirements by the deadlines stipulated by §75.4.
Certification and Recertification Procedures	§75.20(a)(1)		CT/HRSG	Requires notification of certification test or retest dates at least 45 days prior to certification testing.
Certification and Recertification Procedures	§75.20(a)(2)		CT/HRSG	Requires submittal of certification application in accordance with §75.60.
Certification and Recertification Procedures	§75.20(a)(5)		CT/HRSG	Procedures to be used in the event of agency issues a disapproval of certification application or certification status.
Certification and Recertification Procedures	§75.20(c)(1), (4), (7), (8), (9)		CT/HRSG	Certification procedure requirements.
Quality Assurance and Quality Control Requirements	§75.21(a) and (c)		CT/HRSG	General QA/QC requirements.
Reference Test Methods	§75.22		CT/HRSG	Specifies required test methods to be used for certification or recertification testing.
Out-Of-Control Periods	§75.24		CT/HRSG	Specifies out-of-control periods and required actions to be taken when out-of-control periods occur.

Subpart D - Missing Data Substitution Procedures

General Provisions	§75.30		CT/HRSG	General missing data requirements.
Initial Missing Data Procedures	§75.31(a) and (c)		CT/HRSG	Missing data procedure requirements during the first 2,160 quality-assured monitor operating hours for NO _x CEMS.
Determination of Monitor Data Availability for Standard Missing Data Procedures	§75.32		CT/HRSG	Monitor data availability procedure requirements after the first 2,160 quality-assured monitor operating hours for NO _x CEMS.
Standard Missing Data Procedures	§75.33(a) and (c)		CT/HRSG	Missing data substitution procedure requirements after the first 2,160 quality-assured monitor operating hours for NO _x CEMS.

Subpart E - Alternative Monitoring Systems

Alternative Monitoring Systems	§75.40 - 75.48		CT/HRSG	Optional requirements for alternative monitoring systems.
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Subpart F - Recordkeeping Requirements

General Recordkeeping Provisions	§75.50(a), (b), (d), (e)		CT/HRSG	General recordkeeping requirements.
Specific Recordkeeping Provisions	§75.51(c)		CT/HRSG	Specific recordkeeping requirements for gas- and oil-fired units using Appendix D procedures.
Certification, Quality Assurance, and Quality Control Record Provisions	§75.52(a)(1),(3),(5),-(6), (7)		CT/HRSG	Specific recordkeeping requirements for gas- and oil-fired units using Appendix D procedures.
Monitoring Plan	§75.53(a) - (c), (d)(1)		CT/HRSG	Requirement to prepare and maintain a Monitoring Plan.

Subpart G - Reporting Requirements

General Provisions	§75.60		CT/HRSG	General reporting requirements.
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Notification of Certification and Recertification Test Dates	§75.61		CT/HRSG	Requires written submittal of certification tests, recertification tests, and revised test dates for CEMS. Notice of certification testing shall be submitted at least 45 days prior to the first day of certification or recertification testing. Notification of any proposed adjustment to certification testing dates must be provided at least 7 business days prior to the proposed date change.
Monitoring Plan	§75.62		CT/HRSG	Monitoring Plan required to be submitted no later than 45 days prior to the certification test. (historical)
Certification or Recertification Application	§75.63		CT/HRSG	Requires submittal of a certification application within 30 days after completing the certification test.
Quarterly Reports	§75.64(a)(1) - (5)		CT/HRSG	Requirement to submit quarterly data report.
Quarterly Reports	§75.64(c), (d)		CT/HRSG	Requirement to submit compliance certification in support of each quarterly data report. Requirement to submit quarterly reports in an electronic format to be specified by EPA.

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40 CFR Part 77 - Excess Emissions				
Offset Plans for Excess Emissions of Sulfur Dioxide	§77.3		CT/HRSG	Requirement to submit offset plans for excess SO ₂ emissions not later than 60 days after the end of any calendar year during which an affected unit has excess SO ₂ emissions. Required contents of offset plans are specified.
Deduction of Allowances to Offset Excess Emissions of Sulfur Dioxide	§77.5(b)		CT/HRSG	Requirement for the Designated Representative to hold enough allowances in the appropriate compliance subaccount to cover deductions to be made by EPA if a timely and complete offset plan is not submitted or if EPA disapproves a proposed offset plan.
Penalties for Excess Emissions of Sulfur Dioxide and Nitrogen Oxides	§77.6		CT/HRSG	Requirement to pay a penalty if excess emissions of SO ₂ or NO _x occur at any affected unit during any year.
40 CFR Part 78 - Appeal Procedures for Acid Rain Program				
Appeal Procedures	§78.1 - 78.20		CT/HRSG	Optional appeal procedures for EPA Acid Rain program decisions.
40 CFR Part 82 - Protection of Stratospheric Ozone				
Production and Consumption Controls	Subpart A	X		The Auburndale Cogeneration Facility does not produce or consume ozone depleting substances.
Servicing of Motor Vehicle Air Conditioners	Subpart B	X		Onsite servicing of motor vehicles which involves refrigerant in the motor vehicle air conditioner is not conducted. All such servicing is performed by outside contractors trained and certified in accordance with 40 CFR §82.40.
Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	Subpart C	X		The Auburndale Cogeneration Facility does not sell or distribute any banned nonessential substances.

The Labeling of Products Using Ozone-Depleting Substances	Subpart E	X		The Auburndale Cogeneration Facility Complex does not produce any products containing ozone depleting substances.
Prohibitions	§82.154		Appliances as defined by §82.152 - any device which contains and uses a Class I or II substance as a refrigerant and which is used for household or commercial purposes, including any air conditioner, refrigerator, chiller, or freezer	Class I and II substances cannot be released from appliances due to maintenance, service, repair, or disposal.
Required Practices	§82.156		Same as above	Class I and II substances must be recovered or recycled prior to opening an appliance for maintenance, service, repair, or disposal. Leaking appliances normally containing more than 50 pounds of refrigerant must be repaired, retrofitted, or retired if the leakage rate exceeds specific criteria.
Technician Certification	§82.161		Same as above	Technicians who maintain, service, repair, or dispose of any appliances must be certified.
Certification By Owners of Recovery and Recycling Equipment	§82.162		Same as above	Certified equipment must be used to maintain, service, repair, or dispose of any appliances.

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Subpart F - Recycling and Emissions Reduction

Reporting and Recordkeeping Requirements	§82.166(b), (i), (j), (k), (l), (m)		Appliances as defined by §82.152	<p>To purchase refrigerant, evidence must be presented that the employer has at least one certified technician.</p> <p>Disposers must maintain small appliance verification records.</p> <p>Persons servicing appliances containing 50 or more pounds of refrigerant must provide documentation indicating the amount of refrigerant added to the appliance.</p> <p>Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added.</p> <p>All records must be retained for at least three years.</p>
40 CFR Part 50 - National Primary and Secondary Ambient Air Quality Standards		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 51 - Requirements for Preparation, Adoption, and Submittal of Implementation Plans		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 52 - Approval and Promulgation of Implementation Plans		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 62 - Approval and Promulgation of State Plans for Designated Facilities and Pollutants		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 70 - State Operating Permit Programs		X		State agency requirements - not applicable to individual emission sources.

40 CFR Parts 53, 54, 55, 56, 57, 58, 65, 66, 67, 68, 69, 71, 73, 76, 79, 80, 81, 85, 86, 87, 88, 89, and 93	X		The listed regulations do not contain any requirements which are applicable to the <u>Big Bend Station</u> ?
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Source: ECT, 1995.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for the Auburndale Cogeneration Facility (Page 1 of 14)

Regulation	Citation	Not Applicable	Applicable		Applicable Requirement or Nonapplicability Rationale
			Facility- Wide	Emission Source	
Chapter 62-4, F.A.C. — Permits, Part I General					
Scope of Part I	§62-4.001, F.A.C.	X			Contains no applicable requirements.
Definitions	§62-4.020, F.A.C.	X			Contains no applicable requirements.
General Prohibition	§62-4.030, F.A.C		X		All stationary air pollution sources must be permitted, unless otherwise exempted.

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Exemptions	§62-4.040, F.A.C		X		Certain structural changes exempt from permitting. Other stationary sources exempt from permitting upon FDEP insignificance determination.
Procedure to Obtain Permits; Application	§62-4.050(1), (2), (3), and (4)a.2, F.A.C.		X		All permit applications must be submitted on FDEP forms, in quadruplicate, and signed by a professional engineer. No application fee is required.
Consultation	§62-4.060, F.A.C.	X			Consultation is encouraged, not required.
Standards for Issuing or Denying Permits; Issuance; Denial	§62-4.070, F.A.C	X			Establishes standard procedures for FDEP. Requirement is not applicable to the facility.

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Modification of Permit Conditions	§62-4.080, F.A.C	<input checked="" type="checkbox"/>			Application is for initial Title V operating permit. A Title V permit condition modification is not requested.
Renewals	§62-4.090, F.A.C.		<input checked="" type="checkbox"/>		Establishes permit renewal criteria. Additional criteria are cited at §62-213.430(3), F.A.C.
Suspension and Revocation	§62-4.100, F.A.C.		<input checked="" type="checkbox"/>		Establishes permit suspension and revocation criteria.
Financial Responsibility	§62-4.110, F.A.C.		<input checked="" type="checkbox"/>		Proof of financial responsibility may be required.
Transfer of Permits	§62-4.120, F.A.C.	<input checked="" type="checkbox"/>			Application is for initial Title V operating permit. A sale or legal transfer of a permitted facility is not included in this application.

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Plant Operation—Problems	§62-4.130, F.A.C.		X		Immediate notification is required whenever the permittee is temporarily unable to comply with any permit condition. Notification content is specified.
Permit Conditions	§62-4.160, F.A.C.		X		Specifies general conditions that must be included in all permits.
Chapter 62-103, F.A.C. — Rules of Administrative Procedure— Final Agency Action (Nonrulemaking) and Appeal					
Public Notice of Application and Proposed Agency Action	§62-103.150, F.A.C.		X		Applicant may be required to publish Notice of Application.
Chapter 62-210, F.A.C. — Stationary Sources—General Requirements					
Purpose and Scope	§62-210.100, F.A.C.	X			Contains no applicable requirements.
Definitions	§62-210.200, F.A.C.	X			Contains no applicable requirements.

Permits Required	§62-210.300, F.A.C., except §62-210.300(1), F.A.C.		X		Air operation permit required, with the exception of certain facilities and sources. Startup notification required if a permitted source has been shut down for more than 1 year.
Air Construction Permits	§62-210.300(1), F.A.C.	X			Application is for initial Title V oper- ating permit. A construction permit is not requested in this application.
Public Notice and Comment Public Notice of Proposed Agency Action	§62-210.350(1), F.A.C.		X		All permit applicants required to pub- lish notice of proposed agency action.

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Additional Notice Requirements for Sources Subject to Prevention of Significant Deterioration or Nonattainment Area New Source Review	§62-210.350(2), F.A.C.	X			PSD and nonattainment area NSR application not included in this application package.
Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources	§62-210.350(3), F.A.C.		X		Notice requirements for Title V operating permit applicants.
Public Notice and Hearing Requirements for State Implementation Plan Revisions	§62-210.350(4), F.A.C.	X			Defines requirements applicable to FDEP, only.
Administrative Permit Corrections	§62-210.360, F.A.C.	X			Application is for initial Title V operating permit. An administrative permit correction is not requested in this application.
Reports					

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Notification of Intent to Relocate Air Pollutant Emitting Facility	§62-210.370(1), F.A.C.	X			Facility does not have any relocatable emission units.
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Annual Operating Report for Air Pollutant Emitting Facility	§62-210.370(2), F.A.C.			All emission sources listed in Table A-3	Specifies annual reporting requirements.
Emission Estimates					
Applicability	§62-210.400(1), F.A.C.		X		Establishes emission estimating standards for all regulatory purposes.
General Provisions	§62-210.400(2), F.A.C.		X		Defines the purposes to which emission estimating may be applied.
Reserved	§62-210.400(3), F.A.C.	X			Contains no applicable requirements.
Solid Sulfur Storage and Handling Facilities	§62-210.400(4), F.A.C.	X			Estimation procedure is specified only for solid sulfur storage and handling facilities.

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Air Quality Models	62-210.500, F.A.C.	X			Application is for initial Title V operating permit. Air quality modeling is not required.
Stack Height Policy	62-210.550, F.A.C.			CT/HRSG	Applies to all stacks constructed or modified since December 31, 1970.
Circumvention	§62-210.650, F.A.C. ✓			CT/HRSG	An applicable air pollution control device cannot be circumvented and must be operated whenever the emission unit is operating.
Excess Emissions	§62-210.700, F.A.C. ✓			CT/HRSG	Excess emissions due to startup, shut down, and malfunction are limited. Excess emissions due to malfunction must be reported. Excess emissions due to certain other causes are prohibited.
Forms and Instructions	§62-210.900, F.A.C. ✓	X			Contains no applicable requirements.

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Severability	§62-210.980, F.A.C.	X			Contains no applicable requirements.
Effective Date	§62-210.990, F.A.C.	X			Contains no applicable requirements.
Chapter 62-212, F.A.C. — Stationary Sources—Preconstruction Review					
Purpose and Scope	§62-212.100, F.A.C.	X			Contains no applicable requirements.
Definition	§62-212.100, F.A.C.	X			Contains no applicable requirements.
Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Review	§62-212.300, F.A.C.	X			Applies only to facility construction and modification permitting.
Prevention of Significant Deterioration	§62-212.400, F.A.C.	X			Applies only to facility construction and modification permitting.
Best Available Control Technology (BACT)	§62-212.410, F.A.C.	X			Contains no applicable requirements.

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New Source Review for Nonattainment Areas	§62-212.500, F.A.C.	X			Applies only to facility construction and modification permitting.
Lowest Achievable Emission Rate (LAER)	§62-212.510, F.A.C.	X			Applies only to facility construction and modification permitting.
Source Specific New Source Review Requirements	§62-212.600, F.A.C.	X			Applicable only to sulfur storage and handling facilities.
Source Reclassification	§62-212.700, F.A.C.	X			In applying for a permit to reactivate, a permanently shutdown emission unit will be treated as a new emissions unit.
Chapter 62-213, F.A.C. — Operation Permits for Major Sources of Air Pollution					
Purpose and Scope	§62-213.010, F.A.C.	X			Contains no applicable requirements.
Definitions	§62-213.100, F.A.C.	X			Contains no applicable requirements.

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Annual Licensing Fee ✓	§62-213.200(1), (4), and (6), F.A.C. §62-213.200(2), (3), and (5), F.A.C.	X	X		Operating license fee and documentation requirements. Contains no applicable requirements.
Permit Application Processing Fee ✓	§62-213.210, F.A.C.		X		No fee required for a Title V operating permit application.
Florida Air-Operation License Fee Account	§62-213.220, F.A.C.	X			Contains no applicable requirements.
Permits and Permit Revisions Required ✓	§62-213.400, F.A.C.		X		Title V operation permit required.
Changes Without Permit Revision	§62-213.410, F.A.C.		X		Certain changes may be made if specific notice and recordkeeping requirements are met.

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Immediate Implementation Pending Revision Process	§62-213.412, F.A.C.		X		Certain modifications can be implemented pending permit revision if specific criteria are met.
Trading of Emissions within a Source	§62-213.415, F.A.C.		X		Allows facilities to develop a federally enforceable emissions cap independent of other applicable requirements.
Permit Applications ✓	§62-213.420, F.A.C.		X		Title V operating permit application required.
Permit Issuance, Renewal, and Revision					
Action on Application	§62-213.430(1), F.A.C.	X			Contains no applicable requirements.
Permit Denial	§62-213.430(2), F.A.C.	X			Contains no applicable requirements.

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Permit Renewal and Expiration ✓	§62-213.430(3), F.A.C.		X		Defines permit renewal application contents.
Permit Revision ✓	§62-213.430(4), F.A.C.		X		Defines permit revision application contents.
EPA Recommended Actions	§62-213.430(5), F.A.C.	X			Contains no applicable requirements.
Permit Content ✓	§62-213.440, F.A.C.		X		Defines permit content.
Permit Review by EPA and Affected States	§62-213.450, F.A.C.	X			Contains no applicable requirements.
Permit Shield ✓	§62-213.460, F.A.C. ✓		X		Provides permit shield for facilities in compliance with permit terms and conditions.
Forms and Instructions	§62-213.900, F.A.C.	X			Contains no applicable requirements.

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Chapter 62-214 — Requirements for Sources Subject to the Federal Acid Rain Program					
Purpose and Scope	§62-214.100, F.A.C.	X			Contains no applicable requirements.
Definitions	§62-214.200, F.A.C.	X			Contains no applicable requirements.
Applicability	§62-214.300, F.A.C.			CT/HRSG	Facility includes an Acid Rain unit, therefore facility compliance with §62-213 and §62-214, F.A.C., is required.
Applications	§62-214.320, F.A.C.			CT/HRSG	An Acid Rain Part application for each Acid Rain unit must be included in the Title V operating permit application.

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Acid Rain 62-214

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Acid Rain Compliance Plan and Compliance Options	§62-214.330, F.A.C.			CT/HRSG	A complete Acid Rain compliance plan for each Acid Rain unit must be included in the Acid Rain Part application.
Exemptions	§62-214.340, F.A.C.			CT/HRSG	An application may submitted for certain exemptions.
Certification	§62-214.350, F.A.C.			CT/HRSG	The designated representative must certify all Acid Rain submissions.
Department Action on Applications	§62-214.360, F.A.C.	X			Contains no applicable requirements.
Revisions and Administrative Corrections	§62-214.370, F.A.C.			CT/HRSG	Defines revision procedures and automatic amendments.
Acid Rain Part Content	§62-214.420, F.A.C.			CT/HRSG	Defines the contents of any draft, proposed, or final Acid Rain Part.

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Implementation and Termination of Compliance Options	§62-214.430, F.A.C.			CT/HRSG	Defines permit activation and termination procedures.
Chapter 62-252 — Gasoline Vapor Control		X			The Auburndale Cogeneration Facility does not contain any gasoline dispensing equipment.
Chapter 62-256 — Open Burning and Frost Protection Fires					
Declaration and Intent	§62-256.100, F.A.C.	X			Contains no applicable requirements.
Definitions	§62-256.200, F.A.C.	X			Contains no applicable requirements.
Prohibitions	§62-256.300, F.A.C.		X		Defines prohibited open burning.

Burning for Cold and Frost Protection	§62-256.450, F.A.C.		X		Allows the use of open burning and outdoor heating devices to prevent damage to agricultural products due to cold and frost. Approved fuels and heating devices are specified.
Land Clearing	§62-256.500, F.A.C.		X		Defines allowed open burning for nonrural land clearing and structure demolition.
Industrial, Commercial, Municipal, and Research Open Burning	§62-256.600, F.A.C.	X			Industrial open burning is not conducted.

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Open Burning Allowed	§62-256.700, F.A.C.		X		Allows camp fires, bonfires, or other fires used solely for recreational purposes, ceremonial occasions, outdoor noncommercial preparation of food, or warming of outdoor workers.
Effective Date	§62-256.800, F.A.C.	X			Contains no applicable requirements.
Chapter 62-257 — Asbestos Fee ✓		X			The Auburndale Cogeneration Facility does not <u>contain</u> any asbestos materials.
Chapter 62-272 — Ambient Air Quality Standards		X			Contains no applicable requirements.
Chapter 62-273 — Air Pollution Episodes		X			Contains no applicable requirements. FDEP has not requested preplanned abatement strategy.
Chapter 62-275 — Air Quality Areas		X			Contains no applicable requirements.

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Chapter 62-281 — Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling	X			The Auburndale Cogeneration Facility does not conduct motor vehicle air conditioning servicing.
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Chapter 62-296 — Stationary Source—Emission Standards					
Definitions	§62-296.200, F.A.C.	X			Contains no applicable requirements.
General Particulate Emission Limiting Standard, Process Weight Table	§62-296.310(1), F.A.C.	X			Facility does not have any applicable emission units.
General Particulate Emission Limiting Standard, General Visible Emission Standard	§62-296.310(2), F.A.C. ✓		X ✓		Opacity limited to 20 percent, unless otherwise permitted.
General Particulate Emission Limiting Standard, Unconfined Emission of Particulate Matter	§62-296.310(3), F.A.C. ✓		X ✓		Reasonable precautions must be taken to prevent unconfined particulate matter emission.
General Pollutant Emission Limiting Standard, Volatile Organic Compounds Emissions	§62-296.320(1), F.A.C. ✓		X		Known and existing vapor control devices must be applied, if deemed necessary by FDEP.

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General Pollutant Emission Limiting Standard, Objectional Odor Prohibited	§62-296.320(2), F.A.C. ✓		X		Objectionable odor release is not allowed.
Best Available Control Technology (BACT)	§62-296.330, F.A.C.	X			Contains no applicable requirements. BACT determination is prepared following receipt of complete application for permit to construct.
Specific Emission Limiting and Performance Standards	§62-296.400 through §62-296.416	X			No applicable emission unit is located at the Auburndale Cogeneration Facility.
Reasonably Available Control Technology (RACT) Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO _x) Emitting Facilities	§62-296.500 through §62-296.516, F.A.C.	X			Facility does not include any regulated emission units.

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Reasonably Available Control Technology (RACT)—Requirements for Major VOC- and NO _x -Emitting Facilities	§62-296.570, F.A.C.	X			Facility is not located in a specified VOC nonattainment area or a specified VOC air quality maintenance area.
Reasonably Available Control Technology (RACT)—Lead	§62-296.600 through §62-296.605, F.A.C.	X			Facility is not located in a lead nonattainment area or a lead air quality maintenance area.
Reasonably Available Control Technology (RACT)—Particulate Matter	§62-296.700, F.A.C.	X			Facility is not located in a PM nonattainment area or a PM air quality maintenance area.
Standards of Performance for New Stationary Sources (NSPS)	§62-296.800, F.A.C. ✓			CT/HRSG STR-001 STR-002	40 CFR Part 60 Subparts A, GG and Kb adopted by reference. See Table A-1.
Chapter 62-297 — Stationary Sources—Emissions Monitoring					
Purpose and Scope	§62-297.100, F.A.C.	X			Contains no applicable requirements.

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Definitions	§62-297.200, F.A.C.	X			Contains no applicable requirements.
General Test Requirements	§62-297.310, F.A.C. ✓			CT/HRSG	Provides certain compliance test protocols.
Applicable Test Procedures	§62-297.330, F.A.C. ✓			CT/HRSG	Provides certain compliance test procedures and specifies compliance test to be used.
Frequency of Compliance Test	§62-297.340(1)(a),(c), (d)1.,(h),(i), and (3), F.A.C. ✓			CT/HRSG	Specifies compliance test frequency.
Stack Sampling Facilities Provided by the Owner of an Air Pollution Point Source	§62-297.345, F.A.C. ✓			CT/HRSG	Specifies minimum requirements for stack sampling facilities.
Determination of Process Variables	§62-297.350, F.A.C. ✓			CT/HRSG	Specifies minimum requirements for process variables determinations.

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EPA Methods Adopted by Reference	§62-297.400 through §62-297.440, F.A.C.	X			Contains no applicable requirements.
EPA VOC Capture Efficiency Test Procedures	§62-297.450, F.A.C.	X			Contains no applicable requirements.
Continuous Emission Monitoring Requirements	§62-297.500, F.A.C.	X			Contains no applicable requirements.
Performance Specifications	§62-297.520, F.A.C.	X			Contains no applicable requirements.
Test Reports	§62-297.570, F.A.C. ✓			CT/HRSG	Specifies compliance test report contents and filing deadlines.
Exceptions and Approval of Alternate Procedures and Requirements	§62-297.620, F.A.C.	X			Exceptions or alternate procedures have not been requested.
Construction Permit AC53-208321					

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Emission limits for NO _x , CO, VOC, PM ₁₀ , SO ₂ , H ₂ SO ₄ , Opacity, Hg, As, F, BE, and Pb	Specific Condition 1			CT/HRSG	Emission limits are specified in Table 1.
Opacity	Specific Condition 2			CT/HRSG	Visible emissions shall not exceed 20% opacity. Visible emissions shall not exceed 10% opacity at full load.
Operating Hours and Fuel Usage	Specific Conditions 3, 4, 5			CT/HRSG	Facility is authorized to operate 8,760 hrs/yr. Limits use of fuel oil to 400 hrs/yr following completion of FGT Phase III expansion. Fuel oil sulfur content limited to 0.05 % by weight. Maximum heat input at ISO conditions limited to 1,170 and 1,214 MMBtu/hr LHV for distillate oil and natural gas, respectively..

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Changes	Specific Condition 6			CT/HRSG	FDEP must be notified of any changes in the method of operation, equipment, or operating hours.
Test Methods	Specific Conditions 8, 9, 10, 11, 12, 13, 14			CT/HRSG	Establishes acceptable test methods.
Space for SCR Equipment	Specific Condition 15			CT/HRSG	Sufficient space must be available for the future installation of SCR equipment should the facility be unable to meet the NO _x standards, if required.
Continuous NO _x Monitoring	Specific Condition 16			CT/HRSG	Requires installation of a NO _x CEMS meeting 40 CFR Part 60 Appendix B requirements.
Continuous fuel and steam flow monitoring	Specific Condition 17			CT/HRSG	Requires continuous monitoring system for fuel and steam flow rates per 40 CFR Part 60, Subpart GG.

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Fuel composition	Specific Condition 18			CT/HRSG	Requires monitoring of fuel oil sulfur, nitrogen, and heat input based on fuel analyses.
Quarterly Reports	Specific Condition 24			CT/HRSG	Quarterly reports as required by 40 CFR Part 60.7 and 60.334 must be submitted to FDEP's Southwest District Office.
Equipment Literature	Specific Condition 25			CT/HRSG	General literature describing the CT and graphs showing the relationship between NO _x emissions and steam injection rates, ambient temperature, and heat load shall be submitted to FDEP's Southwest District Office and the FDEP Bureau of Air Regulation in Tallahassee.

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Annual Reports	Specific Condition 27			CT/HRSG	Annual reporting is required per 62-210.300(2), F.A.C.
Application for Operation Permit	Specific Condition 29			CT/HRSG	Application for an operation permit must be submitted at least 90 days prior to construction permit expiration.

Source: ECT, 1995.

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Alternative Methods of Operation

Combustion Turbine (CT) and Heat Recovery Steam Generator (HRSG)

Method No.	Equipment	Fuel Type	Heat Input Range (MMBtu/hr)	Maximum Operating Hours		
				(Hrs /Dy)	(Dys /Wk)	(Hrs /Yr)
1	CT/ HRSG	Natural Gas	0 - 1,253	24	7	8,760
2	CT/ HRSG	No. 2 Oil	0 - 1,252	24	7	400

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Auburndale Cogeneration Facility Insignificant and Exempt Source Units (Page 1 of 3)

?(E) Title, more info needed

T(E) Trivial
E(E) Exemptible
U(E) Unregulated

Source Unit Type	Status	Basis	
Routine maintenance and repair activities, except painting	Presumptive exemption	Item 10, Title V Insignificant Source Summary for Electric Power Plants	T
Brazing, soldering and welding	Exempt	62-210.300(3)(p), F.A.C.	T
Parts cleaning and degreasing stations	Insignificant	All cleaning conducted in stations with lids closed when not in use.	?
Emergency electrical generators operated < 400 hrs/yr	Exempt	62-210.300(3)(u), F.A.C.	?
Storage tanks < 550 gallons	Presumptive exemption	Item 40, Title V Insignificant Source Summary for Electric Power Plants	?
Inorganic substance storage tanks > 550 gallons	Presumptive exemption, if not HAP	Item 41, Title V Insignificant Source Summary for Sugar Cane Growers	T
General purpose diesel engines operated < 400 hrs/yr	Exempt	62-210.300(3)(u), F.A.C.	?
Lawn maintenance	Presumptive exemption	Item 32, Title V Insignificant Source Summary for Electric Power Plants	T
No. 2 Fuel Oil Truck Unloading Equipment	Insignificant	Handling of low volatility No. 2 fuel oil. <i>(Both tanks VOC < 0.5 Tpy Ste-001 E002)</i>	E
Oil/Water Separators	Insignificant	Handling of low volatility No. 2 fuel oil.	E
Natural Gas Gate Station	Insignificant	Small fugitive losses of primarily methane.	T
Fresh Water Cooling Towers	Presumptive exemption	Item 3, Title V Insignificant Source Summary for Electric Power Plants	E
Natural Gas System Maintenance	Insignificant	Small fugitive losses of primarily methane.	T
HVAC and Chiller Units (List of Equipment Containing 50 lb or More of Refrigerant Will Be Included in the Title V Permit Application)	Presumptive exemption	Item 17, Title V Insignificant Source Summary for Electric Power Plants	T
Lube Oil Vents Associated with Rotating Equipment	Insignificant	Handling of low volatility lubricants.	T
Vehicular Traffic on Paved Roads	Insignificant	Low traffic volume	E
Compressed Air Systems Including Air Compressors and Driers	Presumptive exemption	Item 34, Title V Insignificant Source Summary for Electric Power Plants	T
Office Equipment and Office Ventilation	Presumptive exemption	Miscellaneous Sources, Title V Insignificant Source Summary for Pulp and Paper Industry	T

See Rule 10.001
infrs
no h. reported
HAPs

See rule 10.001
applicable
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Unregulated
rule

Maintenance Activities Associated with Transformers, Switches, Switchgear Processing (Including Cleaning, Changing, and Venting)	Presumptive exemption	Item 19, Title V Insignificant Source Summary for Electric Power Plants	- T
Sewer Line Vents	Presumptive exemption	Item 23, Title V Insignificant Source Summary for Electric Power Plants	- E
Storage of Materials in Sealed Containers	Presumptive exemption	Item 41, Title V Insignificant Source Summary for Electric Power Plants	- T
Lube Oil Tank Vents	Presumptive exemption	Miscellaneous Sources, Title V Insignificant Source Summary for Pulp and Paper Industry	- E
Portable Kerosene Space Heaters	Exempt	62-210.300(3)(l), F.A.C.	- T
Battery Charging	Presumptive exemption	Miscellaneous Sources, Title V Insignificant Source Summary for Pulp and Paper Industry	- T
Laboratory Equipment Used Exclusively for Chemical or Physical Analyses	Exempt	62-210.300(3)(o), F.A.C.	- T
Recycling Operations, Including Sorting, Compacting, and Baling	Presumptive exemption	Item 36, Title V Insignificant Source Summary for Electric Power Plants	- T
Sewage Treatment Facilities	Presumptive exemption	Item 25, Title V Insignificant Source Summary for Electric Power Plants	- E
Cookouts	Presumptive exemption	Miscellaneous Sources, Title V Insignificant Source Summary for Pulp and Paper Industry	- T
Stack Sampling Testing Equipment	Presumptive exemption	Item 25, Title V Insignificant Source Summary for Electric Power Plants	- T
Degasifiers/Deaerators	Presumptive exemption	Item 18, Title V Insignificant Source Summary for Electric Power Plants	- E
Fire and Safety Equipment	Exempt	62-210.300(3)(v), F.A.C.	- T
Generator Venting	Presumptive exemption	Item 21, Title V Insignificant Source Summary for Electric Power Plants	- T
Storage and Chemicals Used Solely for Water/Waste Water Treatment	Presumptive exemption	Item 27, Title V Insignificant Source Summary for Electric Power Plants	- E
Architectural (Equipment) Maintenance Painting	Insignificant	Intermittent maintenance painting of equipment.	- T
Surface Coating Using 6.0 gallons of Coatings Per Day or Less.	Exempt	62-210.300(3)(w), F.A.C.	- ?
Equipment Used for Steam Cleaning	Exempt	62-210.300(3)(j), F.A.C.	- T

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Turbine Vapor Extractor	Presumptive exemption	Item 31, Title V Insignificant Source Summary for Electric Power Plants	T
Compressed Air System	Presumptive exemption	Item 39, Title V Insignificant Source Summary for Electric Power Plants	T
Forklifts (Propane-Fired)	Insignificant	Low propane consumption.	T

Source: ECT, 1995.

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PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

The following techniques will be used to prevent unconfined particulate matter emissions on an as needed basis:

Chemical or water application to:

Unpaved roads

Unpaved yard areas

Paving and maintenance of roads, parking areas and yards.

Landscaping or planting of vegetation.

Confining abrasive blasting where possible.

Other techniques, as necessary

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Compliance Test Report

Compliance testing as required by Specific Conditions No. 8 through No. 14 of Construction Permit AC53-208321 was conducted on June 4, 5, 6, and 10, 1994. The results of this compliance testing was submitted to FDEP in July 1994.

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