Applicants Version

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

1. Facility Owner/Company Name :
   Utility Board of the City of Key West

2. Site Name :
   Stock Island Power Plant

3. Facility Identification Number : 0870003 [ ] Unknown

4. Facility Location :
   Utility Board of the City of Key West - City Electric System
   Stock Island Power Plant
   6900 Front Street
   Stock Island, Florida
   Monroe County
   AIRS ID: 0870003

   Street Address or Other Locator : 6900 Front Street
   City : Key West County : Monroe Zip Code : 33041-____

5. Relocatable Facility?
   [ ] Yes [X] No

6. Existing Permitted Facility?
   [X] Yes [ ] No

* : Required for ARMS upload

+ : DEP only field

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

Joe Stone
305.295-1198

Owner/Authorized Representative or Responsible Official

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

Name : Leo Carey *
Title : Manager *

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

Organization/Firm : Utility Board of the City of Key West
Street Address : P.O. Drawer 6100 *
City : Key West *
State : FL * Zip Code : 33041-6100 *

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

Telephone :(305)294-5272 * Fax : (305)294-3685

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the non-Title V sourc*

Signature Date

* Attach letter of authorization if not currently on file.

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

0870003

Owner/Authorized Representative or Responsible Official

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

Name : Leo Carey
Title : Manager

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

Organization/Firm : Utility Board of the City of Key West
Street Address : P.O. Drawer 6100
City : Key West
State : FL Zip Code : 33041-6100

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

Telephone : (305) ~~294-5272~~ 295-1001 Fax : (305) ~~294-3685~~ 295-1005

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions units.*

Leo L Carey
Signature

June 7, 1996
Date

* Attach letter of authorization if not currently on file.

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 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 found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

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

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

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

Signature

May 31, 1996
Date

* Attach any exception to certification statement.

IVAN L. CLARK CERTIFICATE NO. 0046777 STATE OF FLORIDA REGISTERED ENGINEER

ATTACHMENTS AND FIGURES

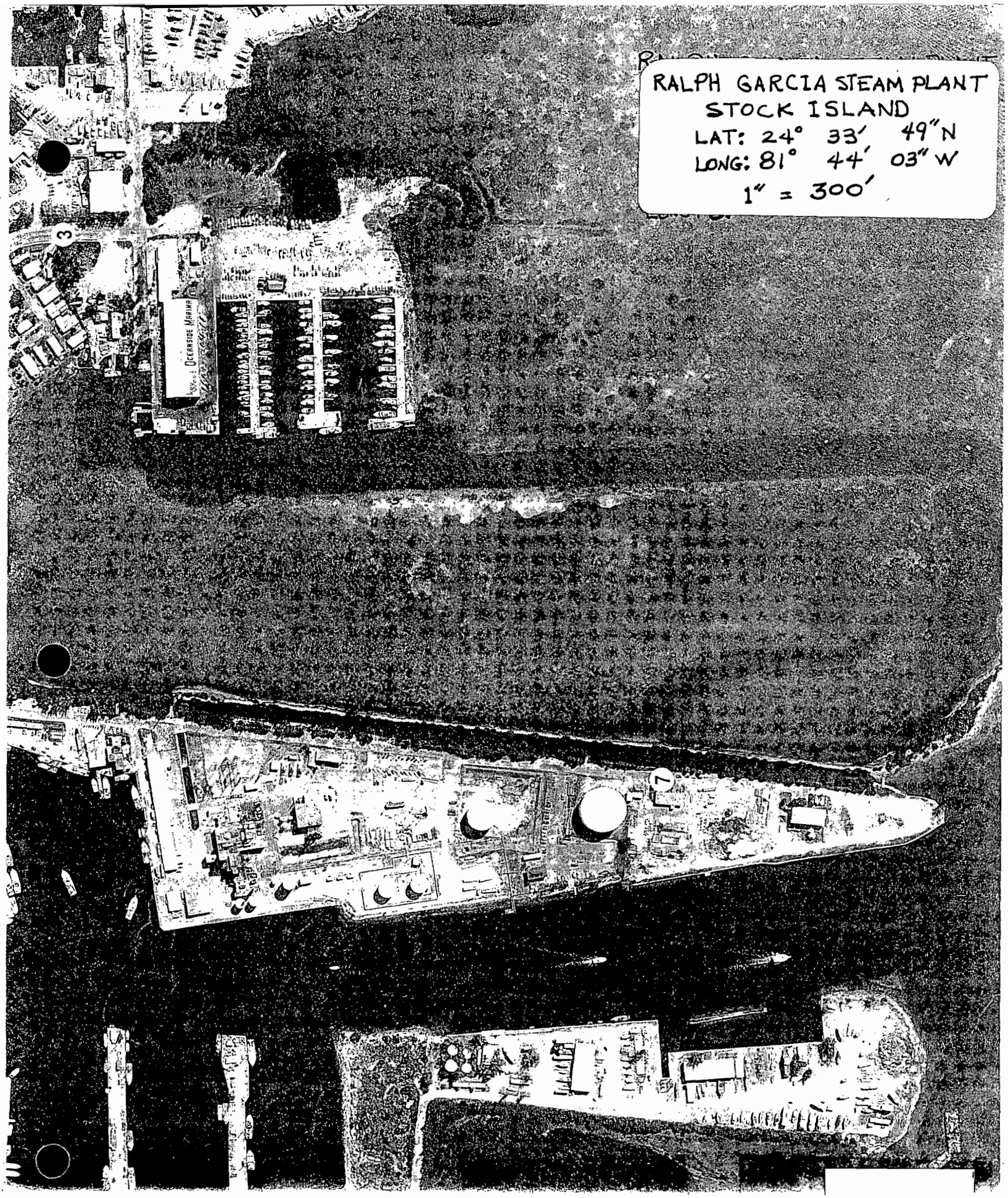
RALPH GARCIA STEAM PLANT
STOCK ISLAND
LAT: 24° 33′ 49″N
LONG: 81° 44′ 03″W
1″ = 300′
OCEANSIDE MARINE

Figure 1

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type
001	37 MW Steam Electric Generator (Ralph Garcia Steam Plant)	
002	2 MW Diesel Peaking Unit #1	
003	2 MW Diesel Peaking Unit #2	
004	2 MW Diesel Peaking Unit #3	
005	8.8 MW Medium Speed Diesel Unit #1	
006	8.8 MW Medium Speed Diesel Unit #2	
Unknown	24 MW Gas Turbine Electric Generator	

Purpose of Application and Category

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

This Application for Air Permit is submitted to obtain :

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

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

Current construction permit number :

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

Operation permit to be renewed :

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

Current construction permit number :

Operation permit to be revised :

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

Operation permit to be revised/corrected :

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

Operation permit to be revised :

Reason for revision :

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

This Application for Air Permit is submitted to obtain :

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

Current operation/construction permit number(s) :

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

Operation permit to be renewed :

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

Operation permit to be revised :

Reason for revision :

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

This Application for Air Permit is submitted to obtain :

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

Current operation permit number(s), if any :

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s) :

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

Application Processing Fee

Check one :

[ ] Attached - Amount : _____ [X] Not Applicable.

Construction/Modification Information

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

Professional Engineer Certification

1. Professional Engineer Name : Ivan L. Clark Registration Number : 0049777
2. Professional Engineer Mailing Address : Organization/Firm : R.W. Beck Street Address : 1125 17th Street, Suite 1900 City : Denver State : CO Zip Code : 80202-2615
3. Professional Engineer Telephone Numbers : Telephone : (303)299-5247 Fax : (303)297-2811

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 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 found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

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

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

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

_____ _____

Signature Date

* Attach any exception to certification statement.

Application Contact

1. Name and Title of Application Contact :

Name : Joe Stone
Title : Environmental Supervisor

2. Application Contact Mailing Address :

Organization/Firm : Utility Board - City of Key West
Street Address : P.O. Drawer 6100
City : Key West
State : FL Zip Code : 33041-6100

3. Application Contact Telephone Numbers :

Telephone : (305)~~294-5272~~ 295-1148 Fax : (305)294-3685

295 ~~45~~ 1148

Application Comment

This application contains certain information and data on unregulated units which was included prior to the FDEP's permit simplification changes, but is no longer required. Due to the cumbersome nature of the electronic software (ELSA) and time constraints, this information was not deleted. The information is not displayed in the ELSA software, but is displayed when the application forms are printed out. Such information has not been updated or verified, may be inaccurate, and should not be reviewed or relied upon in any way.

Additionally, note that this application is submitted using ELSA version 1.3a because it was finalized prior to the FDEP's decision not to release this version. Section III G, Emissions Unit Pollutants, does not print out correctly and information for pollutants from one specific unit may be printed out in the table for another unit. Further, there may be other print out problems caused by ELSA software "bugs".

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

*	*	*	

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

1. Facility UTM Coordinates : Zone : 17		East (km) : 425.65		North (km) : 2716.67	
2. Facility Latitude/Longitude : Latitude (DD/MM/SS) : 24 33 49			Longitude (DD/MM/SS) : 81 44 3		
3. Governmental Facility Code : 4	4. Facility Status Code : A	5. Facility Major Group SIC Code : 49 +	6. Facility SIC(s) :		

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

7. Facility Comment :

The Facility is an electric power plant. The 24 MW gas turbine electric generator is currently located and permitted at City Electric System's Key West Plant, but it is planned to relocate the gas turbine to the Stock Island Power Plant in the fall of 1995. A Prevention of Significant Deterioration application for modification of the Stock Island Power Plant reflecting the proposed relocation of the gas turbine to the facility was submitted in May 1993 and approved on September 20,1995.

DEP Facility Comment

+

Facility Contact

1. Name and Title of Facility Contact :

Joe Stone
Environmental Supervisor

2. Facility Contact Mailing Address :

Organization/Firm : Utility Board - City of Key West
Street Address : P.O. Drawer 6100
City : Key West State : FL Zip Code : 33041-6100

3. Facility Contact Telephone Numbers :

Telephone : (305)294-5272 Fax : (305)294-3685

Property Boundary

UTM Coordinates :

Zone : + East : km + North : km +

Building Identification

Identification of Building on Plot Plan or Flow Diagram :

+

Building Height : FT +

Building Boundary

UTM Coordinates :

Zone :	+	East :	km	+	North :	km	+

Facility Contact

1. Name and Title of Facility Contact :

Name : Joe Stone
Title : Environmental Supervisor

2. Facility Contact Mailing Address :

Organization/Firm : Utility Board - City of Key West
Street Address : P.O. Drawer 6100
City : Key West
State : FL Zip Code : 33041-6100

3. Facility Contact Telephone Numbers :

Telephone : (305)294-5272 Fax : (305)294-3685

DEP Form No. 62-210.900(1) - Form
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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. Facility Regulatory Classifications Comment :	
Ozone SIP Facility :	+*
Annual Operating Report Required :	+*

B. FACILITY REGULATIONS

Rule Applicability Analysis

B. FACILITY REGULATIONS

List of Applicable Regulations

40CFR70 - State Operating Permits

40CFR72 - Regulations on Permits

40CFR73 - SO2 Allowance System

40CFR75 - Regulations for CEMs under Acid Rain Requirements

40CFR77 - Excess Emissions for Acid Rain Units

40CFR78 - Appeal Procedures for Acid Rain Units

40CFR60.7 - Notification and Recordkeeping (NSPS)

40CFR60.8 - Performance Tests (NSPS)

40CFR60.11 - Compliance with Standards and Maintenance Requirements (NSPS)

40CFR60.12 - Circumvention (NSPS)

40CFR60.13 - Monitoring Requirements (NSPS)

40CFR60.19 - General Notification and Reporting Requirements (NSPS)

40CFR60, Subpart GG - Standards of Performance for Stationary Gas Turbines (NSPS)

62-4.001 through 62-4.160, FAC - Permits Part I General

62-4.210, FAC - Construction Permits

B. FACILITY REGULATIONS

List of Applicable Regulations

62-4.220, FAC - Operating Permits

62-103.150, FAC - Public Notice of Application and Proposed Agency Action

62-210, FAC - Stationary Sources

62-212.300, FAC - Sources Not Subject to PSD or Nonattainment Requirements

62-212.400, FAC - Prevention of Significant Deterioration

62-213, FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-204.240, FAC - Ambient Air Quality Standards

62-281, FAC - Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling

62-296.320(4)(b), FAC - General Visible Emission Standards

62-296.320(2), FAC - General Pollutant Emission Limiting Standards, Objectionable Odor

62-296.405(1), FAC - Spec Emiss Limiting & Perf Stds for Existg Foss Fuel Fire Stm Gen >250 MMBtu/hr

62-297.310, FAC - General Test Requirements

62-297.620, FAC - Exceptions and Approvals of Alternative Procedures and Requirements

40CFR82 - Servicing of Motor Vehicle Air Conditioners

62-296.320(4)(c), FAC - Unconfined Emissions of Particulate Matter

B. FACILITY REGULATIONS

List of Applicable Regulations

62-297.401, FAC - Compliance Test Methods

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted *	2. Pollutant Classification +*
SO2	A
VOC	A
NOX	A
CO	A
PM	A
H021	B
H2S	B
PB	B
PM10	A

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 1

1. Pollutant Emitted : SO2 *
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 2

1. Pollutant Emitted : VOC *
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 3

1. Pollutant Emitted : NOX *
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 4

1. Pollutant Emitted : CO *
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 5

1. Pollutant Emitted : PM *
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 7

1. Pollutant Emitted : H021 * Beryllium Compounds

2. Requested Emissions Cap :
(lbs/hour) (tons/year)

3. Basis for Emissions Cap Code :

4. Facility Pollutant Comment :

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 9

1. Pollutant Emitted : H2S *

2. Requested Emissions Cap :
(lbs/hour) (tons/year)

3. Basis for Emissions Cap
Code :

4. Facility Pollutant Comment :

awfully close to 100

Potential H2S emissions are estimated to be 97.7 tpy. Actual H2S emissions were estimated to be approximately 19 tons. Unit IDs 001, 005 and 006 use once-through groundwater cooling water containing H2S, which is released from the plant to the on-site discharge canal.

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 1

1. Pollutant Emitted : PB *
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 2

1. Pollutant Emitted : PM10 *
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	Figure 1
2. Facility Plot Plan :	Figure 2
3. Process Flow Diagram(s) :	Figures 3 - 6
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	unconfpm.wk4
5. Fugitive Emissions Identification :	NA
6. Supplemental Information for Construction Permit Application :	NA

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt Activities :	stiinsig.wk4
8. List of Equipment/Activities Regulated under Title VI :	sti_cfcs.wk4
9. Alternative Methods of Operation : Ralph Garcia also fire propane	NA See Appendix
10. Alternative Modes of Operation (Emissions Trading) :	NA
11. Identification of Additional Applicable Requirements :	Attachment F
12. Compliance Assurance Monitoring Plan :	
13. Risk Management Plan Verification :	NA
14. Compliance Report and Plan :	sti_plan.doc
15. Compliance Certification (Hard-copy Required) :	Attachment A

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[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, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 2

2 MW Diesel Peaking Unit #1

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[ ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[X] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

20% opacity is only limit

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[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, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 3

2 MW Diesel Peaking Unit #2

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[ ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[X] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[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, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 4

2 MW Diesel Peaking Unit #3

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[ ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[X] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[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, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 5

8.8 MW Medium Speed Diesel Unit #1

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[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, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 6

8.8 MW Medium Speed Diesel Unit #2

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[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, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 7

24 MW Gas Turbine Electric Generator

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[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, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Information Section 1

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 37 MW Steam Electric Generator (Ralph Garcia Steam Plant) Description of Emissions Unit for AIRS Tracking : + 37 MW Steam Electric Generator (Ralph Garcia Steam Plant)		
2. Emissions Unit Identification Number : 001 * [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [X] Yes [ ] No *	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : DEP Emissions Unit Comment : + Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

Emissions Unit Information Section 2

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 2 MW Diesel Peaking Unit #1 Description of Emissions Unit for AIRS Tracking : + 2 MW Diesel Peaking Unit #1		
2. Emissions Unit Identification Number : 002 * [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [ ] Yes [X] No *	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : DEP Emissions Unit Comment : + Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

Emissions Unit Information Section 3

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 2 MW Diesel Peaking Unit #2 Description of Emissions Unit for AIRS Tracking : + 2 MW Diesel Peaking Unit #2		
2. Emissions Unit Identification Number : 003 * [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [ ] Yes [X] No *	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : DEP Emissions Unit Comment : + Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 2 MW Diesel Peaking Unit #3 Description of Emissions Unit for AIRS Tracking : + 2 MW Diesel Peaking Unit #3		
2. Emissions Unit Identification Number : 004 * [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [ ] Yes [X] No *	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : DEP Emissions Unit Comment : + Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

Emissions Unit Information Section 5

B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : *
   8.8 MW Medium Speed Diesel Unit #1

   Description of Emissions Unit for AIRS Tracking : +
   8.8 MW Medium Speed Diesel Unit #1

2. Emissions Unit Identification Number : 005 *
   [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major
Code : A *	[X] Yes [ ] No *	Group SIC Code : 49

6. Emissions Unit Comment :
   This unit has been granted a new unit exemption by the USEPA from the requirements of the Acid Rain Program, except for the requirements in 40 CFR 72.1 through 72.7, and 72.10 through 72.13. Therefore, the unit is not required to hold a permit (part 72), hold allowances (part 73), and monitor emissions (part 75).

   OK

   DEP Emissions Unit Comment : +

   Similar-Emissions Unit Identification Numbers for Fee Purposes :
   0 +

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : *
   8.8 MW Medium Speed Diesel Unit #2

   Description of Emissions Unit for AIRS Tracking : +
   8.8 MW Medium Speed Diesel Unit #2

2. Emissions Unit Identification Number : 006 *
   [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major
Code : A *	[X] Yes [ ] No *	Group SIC Code : 49

6. Emissions Unit Comment :
   This unit has been granted a new unit exemption by the USEPA from the requirements of the Acid Rain Program, except for the requirements in 40 CFR 72.1 through 72.7, and 72.10 through 72.13. Therefore, the unit is not required to hold a permit (part 72), hold allowances (part 73), and monitor emissions (part 75).

   OK

   DEP Emissions Unit Comment : +

   Similar-Emissions Unit Identification Numbers for Fee Purposes :
   0 +

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : *
24 MW Gas Turbine Electric Generator

Description of Emissions Unit for AIRS Tracking : +
24 MW Gas Turbine Electric Generator

2. Emissions Unit Identification Number : *
[ ] No Corresponding ID [X] Unknown

3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major
Code : C *	[ ] Yes [X] No *	Group SIC Code : 49

6. Emissions Unit Comment :
The maximum output of the gas turbine is dependent on the ambient temperature and is approximately 24 MW @ 59 F. The initial startup date of the unit at Stock Island is projected to be January, 1997. However, the unit is not affected by the Acid Rain Program, as it is an existing (pre 1990) simple cycle combustion turbine less than 25 MW which is being moved from City Electric System's Key West Power Plant to the Stock Island Power Plant. A PSD permit has been received for the move.

DEP Emissions Unit Comment : + OK

Similar-Emissions Unit Identification Numbers for Fee Purposes :
0 +

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Emissions Unit Control Equipment 1

1. Description : Multiple cyclone
2. Control Device or Method Code : 76

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Emissions Unit Control Equipment 1

1. Description : Ignition Timing Retard
2. Control Device or Method Code : 99

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Emissions Unit Control Equipment 1

1. Description : Ignition Timing Retard
2. Control Device or Method Code : 99

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Emissions Unit Control Equipment 1

1. Description : Water Injection
2. Control Device or Method Code : 28

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Emissions Unit Details

1. Initial Startup Date :	01-Dec-1972
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : Zurn	Model Number : 17995
4. Generator Nameplate Rating : 37 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate : 515 ✓	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Emissions Unit Details

1. Initial Startup Date :	01-Mar-1965
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : GM-EMD	Model Number : MU-60
4. Generator Nameplate Rating : 2 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate : 23	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Emissions Unit Details

1. Initial Startup Date :	01-Mar-1965
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : GM-EMD	Model Number : MU-60
4. Generator Nameplate Rating : 2 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	23 √	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment :			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Emissions Unit Details

1. Initial Startup Date :	01-Mar-1965
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : GM-EMD	Model Number : MU-60
4. Generator Nameplate Rating : 2 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate : 23 ✓	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Emissions Unit Details

1. Initial Startup Date :	01-Apr-1991
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : Colt Pielstick; Fairbanks Morse	Model Number : PC-2.6V
4. Generator Nameplate Rating : 9 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate : 85 ✓	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	3,740 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Emissions Unit Details

1. Initial Startup Date :	01-Apr-1991
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : Colt Pielstick, Fairbanks Morse	Model Number : PC-2.6V
4. Generator Nameplate Rating : 9 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate : 85 ✓	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	3,740 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Emissions Unit Details

1. Initial Startup Date :	01-Jan-1996
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : General Electric	Model Number : Frame 5 Model PG
4. Generator Nameplate Rating : 24 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	330	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment : Maximum heat input of 330 MMBtu/hr is based on Higher Heating Value (HHV). Maximum heat input at Lower Heating Value (LHV) is 311.6 MMBtu/hr. ← Permitted			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :

	24 hours/day	7 days/week
	52 weeks/year	2,889 hours/year

OK

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Rule Applicability Analysis

List of Applicable Regulations

40CFR72 - Regulations on Permits

40CFR73 - SO2 Allowance System

40CFR75 - Regulations for CEMs under Acid Rain Requirements

40CFR77 - Excess Emissions for Acid Rain Units

40CFR78 - Appeal Procedures for Acid Rain Units

62-4.001 through 62-4.160, FAC - Permits Part I General

62-4.210, FAC - Construction Permits

62-4.220, FAC - Operating Permits

62-210, FAC - Stationary Sources

62-296.405(1), FAC - Spec Emiss Limiting & Perf Stds for Existg Foss Fuel Fire Stm Gen >250 MMBtu/hr

40CFR70 - State Operating Permits

62-103.150, FAC - Public Notice of Application and Proposed Agency Action

62-213, FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-204.240, FAC - Ambient Air Quality Standards

62-296.320(4)(b), FAC - General Visible Emission Standards

62-296.320(2), FAC - General Pollutant Emission Limiting Standards, Objectionable Odor

62-297.310, FAC - General Test Requirements

62-297.620, FAC - Exceptions and Approvals of Alternative Procedures and Requirements

62-296.320(4)(c), FAC - Unconfined Emissions of Particulate Matter

62-297.401, FAC - Compliance Test Methods

62-212.300, FAC - Sources not Subject to PSD Nonattainment Requirements

List of Applicable Regulations

List of Applicable Regulations

40CFR70 - State Operating Permits

62-103.150, FAC - Public Notice of Application and Proposed Agency Action

62-210, FAC - Stationary Sources, except 62-210.550, FAC - Stack Height

62-213, FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-272.300, FAC - Ambient Air Quality Standards

62-273, FAC - Air Pollution Episodes

62-296.310(2)(a), FAC - General Visible Emission Standards

62-296.320(2), FAC - General Pollutant Emission Limiting Standards, Objectionable Odor

62-297.310 through 62-297.400, FAC - Compliance Test Requirements

62-297.570, FAC - Compliance Test Reports

62-296.310(3), FAC - Unconfined Emissions of Particulate Matter

List of Applicable Regulations

40CFR70 - State Operating Permits

62-103.150, FAC - Public Notice of Application and Proposed Agency Action

62-210, FAC - Stationary Sources, except 62-210.550, FAC - Stack Height

62-213, FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-272.300, FAC - Ambient Air Quality Standards

62-273, FAC - Air Pollution Episodes

62-296.310(2)(a), FAC - General Visible Emission Standards

62-296.320(2), FAC - General Pollutant Emission Limiting Standards, Objectionable Odor

62-297.310 through 62-297.400, FAC - Compliance Test Requirements

62-297.570, FAC - Compliance Test Reports

62-296.310(3), FAC - Unconfined Emissions of Particulate Matter

List of Applicable Regulations

40CFR70 - State Operating Permits

62-103.150, FAC - Public Notice of Application and Proposed Agency Action

62-210, FAC - Stationary Sources, except 62-210.550, FAC - Stack Height

62-213, FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-272.300, FAC - Ambient Air Quality Standards

62-273, FAC - Air Pollution Episodes

62-296.310(2)(a), FAC - General Visible Emission Standards

62-296.320(2), FAC - General Pollutant Emission Limiting Standards, Objectionable Odor

62-297.310 through 62-297.400, FAC - Compliance Test Requirements

62-297.570, FAC - Compliance Test Reports

62-296.310(3), FAC - Unconfined Emissions of Particulate Matter

List of Applicable Regulations

62-4.001 through 62-4.160, FAC - Permits Part I General

62-4.210, FAC - Construction Permits

62-4.220, FAC - Operating Permits

62-210, FAC - Stationary Sources

62-212.400, FAC - Prevention of Significant Deterioration

40CFR70 - State Operating Permits

62-103.150, FAC - Public Notice of Application and Proposed Agency Action

62-213, FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-204.240, FAC - Ambient Air Quality Standards

62-296.320(4)(b), FAC - General Visible Emission Standards

62-296.320(2), FAC - General Pollutant Emission Limiting Standards, Objectionable Odor

62-297.310, FAC - General Test Requirements

62-297.620 , FAC - Exceptions and Approvals of Alternative Procedures and Requirements

62-296.320(4)(c), FAC - Unconfined Emissions of Particulate Matter

40CFR72.1 thru 72.7 - Acid Rain Prog. Gen. Provisions (except Retired units exempt. & Std Reqments)

40CFR72.10 thru 72.13 - Acid Rain Prog Gen. Provisions (except Retired units exempt. & Std Reqments)

62-297.401, FAC - Compliance Test Methods

List of Applicable Regulations

40CFR70 - State Operating Permits

62-4.001 through 62-4.160, FAC - Permits Part I General

62-4.210, FAC - Construction Permits

62-4.220, FAC - Operating Permits

62-103.150, FAC - Public Notice of Application and Proposed Agency Action

62-210, FAC - Stationary Sources

62-212.400, FAC - Prevention of Significant Deterioration

62-213, FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-204.240, FAC - Ambient Air Quality Standards

62-296.320(4)(b), FAC - General Visible Emission Standards

62-296.320(2), FAC - General Pollutant Emission Limiting Standards, Objectionable Odor

62-297.310, FAC - General Test Requirements

62-297.620, FAC - Exceptions and Approvals of Alternative Procedures

62-296.320(4)(c), FAC - Unconfined Emissions of Particulate Matter

40CFR72.1 thru 72.7 - Acid Rain Prog. Gen. Provisions (except Retired units exempt. & Std Reqments)

40CFR72.10 thru 72.13 - Acid Rain Prog Gen. Provisions (except Retired units exempt. & Std Reqments)

62-297.401, FAC - Compliance Test Methods

List of Applicable Regulations

40CFR70 - State Operating Permits

40CFR60.7 - Notification and Recordkeeping (NSPS)

40CFR60.8 - Performance Tests (NSPS)

40CFR60.11 - Compliance with Standards and Maintenance Requirements (NSPS)

40CFR60.12 - Circumvention (NSPS)

40CFR60.13 - Monitoring Requirements (NSPS)

40CFR60.19 - General Notification and Reporting Requirements (NSPS)

40CFR60, Subpart GG - Standards of Performance for Stationary Gas Turbines (NSPS)

62-4.001 through 62-4.160, FAC - Permits Part I General

62-4.210, FAC - Construction Permits

62-4.220, FAC - Operating Permits

62-103.150, FAC - Public Notice of Application and Proposed Agency Action

62-210, FAC - Stationary Sources

62-212.400, FAC - Prevention of Significant Deterioration

62-213, FAC - Operation Permits for Major Sources of Air Pollution (Title V) TV-1

62-204.240, FAC - Ambient Air Quality Standards

62-296.320(4)(b), FAC - General Visible Emission Standards

62-296.320(2), FAC - General Pollutant Emission Limiting Standards, Objectionable Odor

62-297.310, FAC - General Test Requirements

62-297.620, FAC -Exceptions and Approvals of Alternative Procedures and Requirements

62-296.320(4)(c), FAC - Unconfined Emissions of Particulate Matter

List of Applicable Regulations

62-297.401, FAC - Compliance Test Methods

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	Steam Unit #1	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	102	feet
7. Exit Diameter :	5.3	feet
8. Exit Temperature :	369	°F *
9. Actual Volumetric Flow Rate :	166362	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 :		

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 2

2 MW Diesel Peaking Unit #1

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	High Speed Unit #1	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	16	feet
7. Exit Diameter :	2.5	feet
8. Exit Temperature :	730	°F *
9. Actual Volumetric Flow Rate :	19650	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 :		

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 3

2 MW Diesel Peaking Unit #2

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	High Speed Unit #2	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	16	feet
7. Exit Diameter :	2.5	feet
8. Exit Temperature :	730	°F *
9. Actual Volumetric Flow Rate :	19650	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 :		

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 4

2 MW Diesel Peaking Unit #3

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	High Speed Unit #3	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	16	feet
7. Exit Diameter :	2.5	feet
8. Exit Temperature :	730	°F *
9. Actual Volumetric Flow Rate :	19650	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 :		

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 5

8.8 MW Medium Speed Diesel Unit #1

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	MSD Unit #1	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	100	feet
7. Exit Diameter :	5.8	feet
8. Exit Temperature :	600	°F *
9. Actual Volumetric Flow Rate :	73000	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 :		

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 6

8.8 MW Medium Speed Diesel Unit #2

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	MSD Unit #2	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	100	feet
7. Exit Diameter :	5.8	feet
8. Exit Temperature :	600	°F *
9. Actual Volumetric Flow Rate :	73000	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 :		

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 7

24 MW Gas Turbine Electric Generator

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	Comb. Turbine #1	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	31	feet
7. Exit Diameter :	13.0	feet
8. Exit Temperature :	910	°F *
9. Actual Volumetric Flow Rate :	580406	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 :		

The stack exit diameter of 12.95 feet is an equivalent diameter. The stack is actually rectangular with exit dimensions 10'-4" x 12'-9".

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Boiler burns residual fuel oil #6 ✓	
2. Source Classification Code (SCC) : 1-01-004-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 3.41 ✓ *	5. Maximum Annual Rate : 29,877.00 ✓ *
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 2.50 ✓ Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 151	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Boiler burns distillate fuel oil #2 ✓	
2. Source Classification Code (SCC) : 1-01-005-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 3.73 *	5. Maximum Annual Rate : 32,691.00 *
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 2.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 138 ✓	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

not in Permit

Segment Description and Rate : Segment 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Boiler burns propane.	
2. Source Classification Code (SCC) : 1-01-010-02	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 5.69 *	5. Maximum Annual Rate : 49,850.00 *
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.00 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 90	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

2 MW Diesel Peaking Unit #1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 distillate fuel oil burned in diesel engine.	
2. Source Classification Code (SCC) : 2-02-004-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 0.17 *	5. Maximum Annual Rate : 1,460.00 *
6. Estimated Annual Activity Factor : - not required by permit; only # 2.	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 138	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

2 MW Diesel Peaking Unit #2

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 distillate fuel oil burned in diesel engine.	
2. Source Classification Code (SCC) : 2-02-004-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 0.17 *	5. Maximum Annual Rate : 1,460.00 *
6. Estimated Annual Activity Factor : not required by permit	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 138	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

2 MW Diesel Peaking Unit #3

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 distillate fuel oil burned in diesel engine.	
2. Source Classification Code (SCC) : 2-02-004-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 0.17 *	5. Maximum Annual Rate : 1,460.00 *
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 138	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5

8.8 MW Medium Speed Diesel Unit #1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :

   No. 2 distillate fuel oil burned in diesel engine.

2. Source Classification Code (SCC) : 2-02-004-01

3. SCC Units : Thousand Gallons Burned (all liquid fuels)

4. Maximum Hourly Rate : 0.61 *	5. Maximum Annual Rate : 2,270.00 *
6. Estimated Annual Activity Factor : 0.05% Mandated by Acid Rain Permit.	
7. Maximum Percent Sulfur : 0.05 Percent Sulfur Limit : + Permit says 0.5%	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 141	

10. Segment Comment :

    Maximum annual rate of 2.27 million gallons is with Emission Unit 006 not operating. The current operating permit (Permit No. AO44-207419) limits Emission Unit 005 and Emission Unit 006 to a sum total annual fuel consumption of 2.27 million gallons. Consistent with the unit's Acid Rain New Unit Exemption and 40CFR72.7(d)(4), the unit shall burn fuel with a sulfur content of 0.05% by weight or less.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6

8.8 MW Medium Speed Diesel Unit #2

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 distillate fuel oil burned in diesel engine.	
2. Source Classification Code (SCC) : 2-02-004-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 0.61 *	5. Maximum Annual Rate : 2,270.00 *
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.05 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 141	
10. Segment Comment : Maximum annual rate of 2.27 million gallons is with Emission Unit 005 not operating. The current operating permit (Permit No. AO44-207419) limits Emission Unit 005 and Emission Unit 006 to a sum total annual fuel consumption of 2.27 million gallons. Consistent with the unit's Acid Rain New Unit Exemption and 40CFR72.7(d)(4), the unit shall burn fuel with a sulfur content of 0.05% by weight or less.	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 7

24 MW Gas Turbine Electric Generator

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 fuel oil fired gas turbine.	
2. Source Classification Code (SCC) : 2-01-001-01	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 2.46 *	5. Maximum Annual Rate : 7,100.00 *
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.05 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 138	
10. Segment Comment : Consistent with the BACT for SO2 in the unit's PSD permit, the unit will burn fuel oil with a maximum of 0.05% sulfur by weight.	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			NS
2 - NOX			NS
3 - PM	076		EL
4 - PM10	076		NS
5 - SO2			EL
6 - VOC			NS

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			NS
2 - NOX			NS
3 - PM			NS
4 - PM10			NS
5 - SO2			NS
6 - VOC			NS

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			NS
2 - NOX			NS
3 - PM			NS
4 - PM10			NS
5 - SO2			NS
6 - VOC			NS

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			NS
2 - NOX			NS
3 - PM			NS
4 - PM10			NS
5 - SO2			NS
6 - VOC			NS

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			EL
2 - NOX	099		EL
3 - PM			EL
4 - PM10			EL
5 - SO2			EL
6 - VOC			EL
7 - H021			EL

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			EL
2 - NOX			EL
3 - PM			EL
4 - PM10			EL
5 - SO2			EL
6 - VOC			EL
7 - H021			EL
8 - H021			EL

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			EL
2 - NOX	028		EL
3 - PM			EL
4 - PM10			EL
5 - SO2			EL
6 - VOC			NS

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 18.66 lb/hour 81.73 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : 5.0 lbs/1000 gal x 1000 gal/138 MMBtu x 515 MMBtu/hr = 18.66 lbs/hr; 18.66 lbs/hr x 8760 hrs/yr x ton/2000 lbs = 81.73 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 227.80 lb/hour 997.77 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 67 lbs/1000 gal x 1000 gal/151 MMBtu x 515 MMBtu/hr = 227.8 lbs/hr; 227.8 lbs/hr x 8760 hrs/yr x ton/2000 lbs = 997.77 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *

2. Total Percent Efficiency of Control : 46.00 %

3. Potential Emissions :
154.50 lb/hour 281.96 tons/year

4. Synthetically Limited?
[ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
to tons/year

6. Emissions Factor :
Reference : Current permit limit
Unit Code : lbs/MMBtu +*

7. Emissions Method Code : 5 +

8. Calculations of Emissions :

Current permit limits PM emissions to 0.1 lbs/MMBtu (normal operation) and 0.3 lbs/MMBtu (max. 3 hrs/24 hrs). Therefore, potential emissions =
0.3 lbs/MMBtu x 515 MMBtu/hr = 154.5 lbs/hr;
(0.1 lbs/MMBtu x 515 MMBtu/hr x 21 hrs/24 hrs + 154.5 lbs/hr x 3 hrs/24 hrs) x 8760 hrs/yr x ton/2000 lbs = 281.96 tons/yr.
Potential hourly emissions rate during normal operations = 0.1 lbs/MMBtu;
Using AP-42 PM emissions factor of 10S + 3 lbs/1000 gal gives:
(10 x 2.50 + 3) lbs/1000 gal x 1000 gal/151 MMBtu x 515 MMBtu/hr x
(1 - 46%) = 51.5 lbs/hr

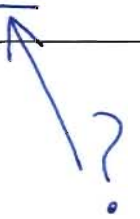
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Potential emissions are based on compliance with current permit limits, whereas actual emissions are based on actual fuel usage and emissions factor based on annual stack testing. Multiple cyclone control efficiency calculated by ____



? nothing in EARS either.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *

2. Total Percent Efficiency of Control : 37.00 %

3. Potential Emissions :
154.50 lb/hour 281.96 tons/year

4. Synthetically Limited?
[ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
to tons/year

6. Emissions Factor :
Reference : Engr Judgement
Unit Code : lbs/MMBtu +*

7. Emissions Method Code : 5 +

8. Calculations of Emissions :

Current permit limits PM emissions to 0.1 lbs/MMBtu (normal operation) and 0.3 lbs/MMBtu (max. 3 hrs/24 hrs). Therefore, potential emissions =
0.3 lbs/MMBtu x 515 MMBtu/hr = 154.5 lbs/hr;
(0.1 lbs/MMBtu x 515 MMBtu/hr x 21 hrs/24 hrs + 154.5 lbs/hr x 3 hrs/24 hrs) x 8760 hrs/yr x ton/2000 lbs = 281.96 tons/yr.
All PM emissions are assumed to be PM10.
Potential hourly emissions rate during normal operations = 0.1 lbs/MMBtu;
Using AIRS PM10 emissions factor of 9.6S lbs/1000 gal gives:
(9.6 x 2.50) lbs/1000 gal x 1000 gal/151 MMBtu x 515 MMBtu/hr x
(1 - 37%) = 51.5 lbs/hr

9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Potential emissions are based on compliance with current permit limits, whereas actual emissions are based on actual fuel usage and emissions factor based on annual stack testing for PM emissions.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 1,416.25 lb/hour 6,203.18 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : 2.75 lbs/MMBtu x 515 MMBtu/hr = 1416.25 lbs/hr; 1416.25 lbs/hr x 8760 hrs/yr x ton/2000 lbs = 6203.18 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions will be based on continuous emissions monitoring data.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 2.58 lb/hour 11.32 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 0.76 lbs/1000 gal x 1000 gal/151 MMBtu x 515 MMBtu/hr = 2.58 lbs/hr; 2.58 lbs/hr x 8760 hrs/yr x ton/2000 lbs = 11.32 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : ***CO*** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 18.63 lb/hour 81.60 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 0.81 lbs/MMBtu x 23 MMBtu/hr = 18.63 lbs/hr; 18.63 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 81.60 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 71.30 lb/hour 312.29 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 3.1 lbs/MMBtu x 23 MMBtu/hr = 71.3 lbs/hr; 71.3 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 312.29 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.33 lb/hour 36.50 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : 50 lbs/1000 gal x 1000 gall/138 MMBtu x 23 MMBtu/hr = 8.33 lbs/hr; 8.33 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 36.5 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 7.67 lb/hour 33.58 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : 46 lbs/1000 gal x 1000 gal/138 MMBtu x 23 MMBtu/hr = 7.67 lbs/hr; 7.67 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 33.58 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 12.00 lb/hour 52.56 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mass Balance Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 1000 gal/138 MMBtu x 7.2 lbs/gal x 0.5%S x 2 = .5217 lbs/MMBtu; 0.5217 lbs/MMBtu x 23 MMBtu/hr = 12 lbs/hr; 12 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 52.56 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 2.30 lb/hour 10.07 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 0.1 lbs/MMBtu x 23 MMBtu/hr = 2.3 lbs/hr; 2.3 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 10.07 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 18.63 lb/hour 81.60 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 0.81 lbs/MMBtu x 23 MMBtu/hr = 18.63 lbs/hr; 18.63 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 81.60 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 71.30 lb/hour 312.29 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 3.1 lbs/MMBtu x 23 MMBtu/hr = 71.3 lbs/hr; 71.3 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 312.29 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.33 lb/hour 36.50 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : 50 lbs/1000 gal x 1000 gall/138 MMBtu x 23 MMBtu/hr = 8.33 lbs/hr; 8.33 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 36.5 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 7.67 lb/hour 33.58 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : 46 lbs/1000 gal x 1000 gal/138 MMBtu x 23 MMBtu/hr = 7.67 lbs/hr; 7.67 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 33.58 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 12.00 lb/hour 52.56 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mass Balance Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 1000 gal/138 MMBtu x 7.2 lbs/gal x 0.5%S x 2 = .5217 lbs/MMBtu; 0.5217 lbs/MMBtu x 23 MMBtu/hr = 12 lbs/hr; 12 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 52.56 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 2.30 lb/hour 10.07 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 0.1 lbs/MMBtu x 23 MMBtu/hr = 2.3 lbs/hr; 2.3 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 10.07 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 18.63 lb/hour 81.60 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 0.81 lbs/MMBtu x 23 MMBtu/hr = 18.63 lbs/hr; 18.63 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 81.60 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 71.30 lb/hour 312.29 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 3.1 lbs/MMBtu x 23 MMBtu/hr = 71.3 lbs/hr; 71.3 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 312.29 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.33 lb/hour 36.50 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : 50 lbs/1000 gal x 1000 gall/138 MMBtu x 23 MMBtu/hr = 8.33 lbs/hr; 8.33 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 36.5 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 7.67 lb/hour 33.58 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : 46 lbs/1000 gal x 1000 gal/138 MMBtu x 23 MMBtu/hr = 7.67 lbs/hr; 7.67 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 33.58 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 12.00 lb/hour 52.56 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mass Balance Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 1000 gal/138 MMBtu x 7.2 lbs/gal x 0.5%S x 2 = .5217 lbs/MMBtu; 0.5217 lbs/MMBtu x 23 MMBtu/hr = 12 lbs/hr; 12 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 52.56 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 2.30 lb/hour 10.07 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : 0.1 lbs/MMBtu x 23 MMBtu/hr = 2.3 lbs/hr; 2.3 lbs/hr x ton/2000 lbs x 8760 hrs/yr = 10.07 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 53.62 lb/hour 100.27 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : Current permit limits CO emissions to 53.62 lbs/hr and 100.27 tons/yr. Therefore, these are the potential emissions for the unit. (0.6279 lbs/MMBtu x 85.4 MMBtu/hr = 53.62 lbs/hr; 53.62 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 100.27 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : 39.20 %
3. Potential Emissions : 160.90 lb/hour 300.88 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : Current permit limits NOx emissions to 160.9 lbs/hr and 300.9 tons/yr. 3.1 lbs/MMBtu x 85.4 MMBtu/hr x (1 - 39.22%) = 160.9 lbs/hr; 160.9 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 300.9 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on CEM data and stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.54 lb/hour 15.97 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : Current permit limits PM emissions to 8.54 lbs/hr and 15.97 tons/yr. Therefore, these are the potential emissions for the unit. (0.1 lbs/MMBtu x 85.4 MMBtu/hr = 8.54 lbs/hr; 8.54 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 15.97 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.54 lb/hour 15.97 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : Current permit limits PM10 emissions to 8.54 lbs/hr and 15.97 tons/yr. Therefore, these are the potential emissions for the unit. (0.1 lbs/MMBtu x 85.4 MMBtu/hr = 8.54 lbs/hr; 8.54 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 15.97 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 4.46 lb/hour 8.33 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mass Balance 0.05%S Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : Condition of exemption from Acid Rain program limits unit to 0.05% by weight sulfur fuel. Therefore, emissions by mass balance are: 1000 gal fuel/138 MMBtu x 7.2 lbs fuel/gal x 0.05%S x 2 = 0.0522 lbs SO2/MMBtu; 0.0522 lbs/MMBtu x 85.4 MMBtu/hr = 4.46 lbs/hr; 4.46 lbs/hr x 3,740 hrs/yr x ton/2000 lbs = 8.33 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on fuel oil sulfur content or stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 26.81 lb/hour 50.13 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : Current permit limits VOC emissions to 26.81 lbs/hr and 50.13 tons/yr. Therefore, these are the potential emissions for the unit. (0.3139 lbs/MMBtu x 85.4 MMBtu/hr = 26.81 lbs/hr; 26.81 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 50.13 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Detail Information : Pollutant 7

1. Pollutant Emitted : **H021** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.00 lb/hour 0.00 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : Current permit limits Be emissions to 0.00054 lbs/hr and 0.001 tons/yr. Therefore, these are the potential emissions for the unit. (0.000006323 lbs/MMBtu x 85.4 MMBtu/hr = 0.00054 lbs/hr; 0.00054 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 0.001 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 53.62 lb/hour 100.27 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : Current permit limits CO emissions to 53.62 lbs/hr and 100.27 tons/yr. Therefore, these are the potential emissions for the unit. (0.6279 lbs/MMBtu x 85.4 MMBtu/hr = 53.62 lbs/hr; 53.62 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 100.27 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : 39.20 %
3. Potential Emissions : 160.90 lb/hour 300.88 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 +
8. Calculations of Emissions : Current permit limits NOx emissions to 160.9 lbs/hr and 300.9 tons/yr. 3.1 lbs/MMBtu x 85.4 MMBtu/hr x (1 - 39.22%) = 160.9 lbs/hr; 160.9 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 300.9 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on CEM data and stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.54 lb/hour 15.97 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : Current permit limits PM emissions to 8.54 lbs/hr and 15.97 tons/yr. Therefore, these are the potential emissions for the unit. (0.1 lbs/MMBtu x 85.4 MMBtu/hr = 8.54 lbs/hr; 8.54 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 15.97 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.54 lb/hour 15.97 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Current permit limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 +
8. Calculations of Emissions : Current permit limits PM10 emissions to 8.54 lbs/hr and 15.97 tons/yr. Therefore, these are the potential emissions for the unit. (0.1 lbs/MMBtu x 85.4 MMBtu/hr = 8.54 lbs/hr; 8.54 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 15.97 tons/yr.)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *

2. Total Percent Efficiency of Control : %

3. Potential Emissions :
4.46 lb/hour 8.33 tons/year

4. Synthetically Limited?
[X] Yes [ ] No

5. Range of Estimated Fugitive/Other Emissions:
to tons/year

6. Emissions Factor :
Reference : Mass Balance 0.05%S
Unit Code : lbs/MMBtu +*

7. Emissions Method Code : 2 +

8. Calculations of Emissions :

Condition of exemption from Acid Rain program limits unit to 0.05% by weight sulfur fuel.
Therefore, emissions by mass balance are:
1000 gal fuel/138 MMBtu x 7.2 lbs fuel/gal x 0.05%S x 2 =
0.0522 lbs SO2/MMBtu;
0.0522 lbs/MMBtu x 85.4 MMBtu/hr = 4.46 lbs/hr;
4.46 lbs/hr x 3,740 hrs/yr x ton/2000 lbs = 8.33 tons/yr

9. Pollutant Potential/Estimated Emissions Comment :

Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on fuel oil sulfur content or stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *

2. Total Percent Efficiency of Control : %

3. Potential Emissions :
26.81 lb/hour 50.13 tons/year

4. Synthetically Limited?
[X] Yes [ ] No

5. Range of Estimated Fugitive/Other Emissions:
to tons/year

6. Emissions Factor :
Reference : Current permit limit
Unit Code : lbs/MMBtu +*

7. Emissions Method Code : 5 +

8. Calculations of Emissions :

Current permit limits VOC emissions to 26.81 lbs/hr and 50.13 tons/yr. Therefore, these are the potential emissions for the unit. (0.3139 lbs/MMBtu x 85.4 MMBtu/hr = 26.81 lbs/hr; 26.81 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 50.13 tons/yr.)

9. Pollutant Potential/Estimated Emissions Comment :

Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Detail Information : Pollutant 7

1. Pollutant Emitted : **H021** *

2. Total Percent Efficiency of Control : %

3. Potential Emissions :
0.00 lb/hour 0.00 tons/year

4. Synthetically Limited?
[X] Yes [ ] No

5. Range of Estimated Fugitive/Other Emissions:
to tons/year

6. Emissions Factor :
Reference : Current permit limit
Unit Code : lbs/MMBtu +*

7. Emissions Method Code : 5 +

8. Calculations of Emissions :

Current permit limits Be emissions to 0.00054 lbs/hr and 0.001 tons/yr. Therefore, these are the potential emissions for the unit. (0.000006323 lbs/MMBtu x 85.4 MMBtu/hr = 0.00054 lbs/hr; 0.00054 lbs/hr x ton/2000 lbs x 3740 hrs/yr = 0.001 tons/yr.)

9. Pollutant Potential/Estimated Emissions Comment :

Potential emissions are based on compliance with current permit limits, whereas actual emissions are calculated based on actual fuel usage and emissions factors based on stack test results. Synthetic limit based on current permit limit of 3,740 hrs/yr.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Detail Information : Pollutant 8

1. Pollutant Emitted : **H021** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : +*
7. Emissions Method Code : +
8. Calculations of Emissions :
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 64.00 lb/hour 152.00 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mfr data-simlr units Unit Code : lbs +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 0.1938 lbs/MMBtu x 330.3 MMBtu/hr = 64 lbs/hr; 64 lbs/hr x ton/2000 lbs x 7,100,000 gal/yr x hr/10779 lbs fuel x 7.2 lbs fuel/gal = 152 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on operating at 50% load. Synthetic limit based on proposed permit limit of 7.1 million gallons per year fuel oil consumption.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : 64.30 %
3. Potential Emissions : 96.00 lb/hour 138.00 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mfr data-simlr units Unit Code : lbs +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 0.8144 lbs/MMBtu x 330.3 MMBtu/hr x (100%-64.3%)/100 = 96 lbs/hr; 96 lbs/hr x ton/2000 lbs x 7,100,000 gal/yr x hr/17,815 lbs fuel x 7.2 lbs fuel/gal = 138 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions based on operating at full load. Synthetic limit based on proposed permit limit of 7.1 million gallons fuel oil consumption per year.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 18.00 lb/hour 43.00 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mfr data-simlr units Unit Code : lbs +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 0.0545 lbs/MMBtu x 330.3 MMBtu/hr = 18 lbs/hr; 18 lbs/hr x ton/2000 lbs x 7,100,000 gal/yr x hr/10779 lbs fuel x 7.2 lbs fuel/gal = 43 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions based on operating at 50% load. Synthetic limit based on proposed permit limit of 7.1 million gallons fuel oil consumption per year.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 18.00 lb/hour 43.00 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mfr data-simlr units Unit Code : lbs +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 0.0545 lbs/MMBtu x 330.3 MMBtu/hr = 18 lbs/hr; 18 lbs/hr x ton/2000 lbs x 7,100,000 gal/yr x hr/10,779 lbs fuel x 7.2 lbs fuel/gal = 43 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions based on operating at 50% load. Synthetic limit based on proposed permit limit of 7.1 million gallons fuel oil consumption per year.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 17.00 lb/hour 24.00 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mass Balance Unit Code : lbs +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 1000 gal/138 MMBtu x 7.2 lbs/gal x 0.05%S x 2 = .0522 lbs/MMBtu; 0.0522 lbs/MMBtu x 330.3 MMBtu/hr = 17.24 lbs/hr; 17.24 lbs/hr x ton/2000 lbs x 7,100,000 gal/yr x hr/17,815lbs fuel x 7.2 lbs fuel/gal = 24 tons/yr.
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions based on operating at full load. Synthetic limit based on proposed permit limit of 7.1 million gallons fuel oil consumption per year.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 6.00 lb/hour 15.00 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mfr data-simlr units Unit Code : lbs +*
7. Emissions Method Code : 2 +
8. Calculations of Emissions : 0.0182 lbs/MMBtu x 330.3 MMBtu/hr = 6 lbs/hr; 6 lbs/hr x ton/2000 lbs x 7,100,000 gal/yr x hr/10191 lbs fuel x 7.2 lbs fuel/gal = 15 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on operating at 50% load. Synthetic limit based on proposed permit limit of 7.1 million gallons per year fuel oil consumption.

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Pollutant Information Section 3

Allowable Emissions 1

Note that the 2 Mwatt diesel Peaking generators have no allowables, only VE.

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.10	*	lbs/MMBtu	*
Allowable Emissions Unit :		+		

PM

4. Equivalent Allowable Emissions :

51.50	lb/hour	281.96	tons/year

5. Method of Compliance :

Annual testing on or within 60 days before the date October 1 in accordance with EPA Method 5 or 17 (only if the stack gas exit temperature is less than 375 F), conducted while the source is firing No. 6 residual fuel oil within 90-100% of the maximum allowable rate of 515 MMBtu/hr. Testing will be conducted during both sootblowing and normal operating conditions. Testing may be conducted with the source firing No. 6 residual fuel oil at less than 90% of 515 MMBtu/hr; however, if so, subsequent source operation is limited up to 110% of the average No. 6 residual fuel oil heat input rate during the test. Once the unit is so limited, then operation at higher No. 6 residual fuel oil heat input rates is allowed for no more than 15 calendar days for purposes of additional compliance testing to regain the higher rates, not to exceed 515 MMBtu/hr on No. 6 residual fuel oil.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request of 0.1 lbs/MMBtu during normal operation based on current permit conditions and Rule 62-296.405(1), FAC.

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

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 :	0.30	*	lbs/MMBtu	*
Allowable Emissions Unit :		+		

PM-Sootblow

4. Equivalent Allowable Emissions :

154.50	lb/hour	281.96	tons/year

5. Method of Compliance :

Annual testing on or within 60 days before the date October 1 in accordance with EPA Method 5 or 17 (only if the stack gas exit temperature is less than 375 F), conducted while the source is firing No. 6 residual fuel oil within 90-100% of the maximum allowable rate of 515 MMBtu/hr. Testing will be conducted during both sootblowing and normal operating conditions. Testing may be conducted with the source firing No. 6 residual fuel oil at less than 90% of 515 MMBtu/hr; however, if so, subsequent source operation is limited up to 110% of the average No. 6 residual fuel oil heat input rate during the test. Once the unit is so limited, then operation at higher No. 6 residual fuel oil heat input rates is allowed for no more than 15 calendar days for purposes of additional compliance testing to regain the higher rates, not to exceed 515 MMBtu/hr on No. 6 residual fuel oil.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request of 0.3 lbs/MMBtu (max. 3 hrs/24hrs) during soot blowing and load changes based on current permit conditions and Rule 62-210.700(3), FAC.

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :	SO2			
3. Requested Allowable Emissions and Units :	2.75	*	lbs/MMBtu	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	1,416.25	lb/hour	6,203.18	tons/year

5. Method of Compliance :
SO2 emissions will be monitored, recorded and reported in compliance with 40 CFR 75 using a continuous emissions monitor.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request of 2.75 lbs/MMBtu during normal operation based on current permit condition and Rule 62-296.405(1)(c), FAC.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	53.62	*	lbs/hr	*
Allowable Emissions Unit :		+		

4. Equivalent Allowable Emissions :

53.62	lb/hour	100.27	tons/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 10.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request is based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	2.00	*	grams/hp-hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	53.62	lb/hour	100.27	tons/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 10.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request is based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

NOx

3. Requested Allowable Emissions and Units : 160.90 * lbs/hr *
   Allowable Emissions Unit : +

4. Equivalent Allowable Emissions :

160.90	lb/hour	300.90	tons/year

5. Method of Compliance :
   Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 20, in combination with daily records of NOx emissions based on continuous NOx emissions monitoring. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

Compliance Method Code : +* Compliance Test Frequency : +

Fequency Base Date : +

Regulation : +

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

   Allowable emissions request based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 2

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	6.00	*	grams/hp-hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	160.90	lb/hour	300.90	tons/year

5. Method of Compliance :
Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 20, in combination with daily records of NOx emissions based on continuous NOx emissions monitoring. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	8.54	*	lbs/hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :				
	8.54	lb/hour	15.97	tons/year
5. Method of Compliance : Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 5.				
Compliance Method Code :	+*	Compliance Test Frequency :		+
Fequency Base Date :	+			
Regulation :	+			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable emissions request based on current permit limit.				

PM

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 3

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.10	*	lbs/MMBtu	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	8.54	lb/hour	15.97	tons/year

5. Method of Compliance :
Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 5.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	8.54	*	lbs/hr	*
Allowable Emissions Unit :		+		

PM/PM10

4. Equivalent Allowable Emissions :

8.54	lb/hour	15.97	tons/year

5. Method of Compliance :
Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 5.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 4

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.10	*	lbs/MMBtu	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	8.54	lb/hour	15.97	tons/year

5. Method of Compliance :
Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 5.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :	7.			
3. Requested Allowable Emissions and Units :	4.46	*	lbs/hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	4.46	lb/hour	8.33	tons/year

5. Method of Compliance :
Fuel analysis in accordance with 40 CFR 72.7(d)(2) and annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 6 or ASTM D 2880-71 for sulfur in fuel oil. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :	VOC			
3. Requested Allowable Emissions and Units :	26.81	*	lbs/hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	26.81	lb/hour	50.13	tons/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 25.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 6

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	1.00	*	gram/hp-hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	26.81	lb/hour	50.13	tons/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 25.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Pollutant Information Section 7

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER *
2. Future Effective Date of Allowable Emissions :	~~[illegible]~~ Be
3. Requested Allowable Emissions and Units :	0.00 * lbs/hr *
Allowable Emissions Unit :	+
4. Equivalent Allowable Emissions :	Permit has 0.00054 2.0 lbs
	0.00 lb/hour ↵ 0.00 ~~tons~~/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 104.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	53.62	*	lbs/hr	*
Allowable Emissions Unit :		+		

4. Equivalent Allowable Emissions :

53.62	lb/hour	100.27	tons/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 10.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	2.00	*	grams/hp-hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	53.62	lb/hour	100.27	tons/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 10.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	160.90	*	lbs/hr	*
Allowable Emissions Unit :		+		

NOx

✓

4. Equivalent Allowable Emissions :

160.90	lb/hour	300.90	tons/year

5. Method of Compliance :
Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 20, in combination with daily records of NOx emissions based on continuous NOx emissions monitoring. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 2

Allowable Emissions 2

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 6.00 * grams/hp-hr *
   Allowable Emissions Unit : +

4. Equivalent Allowable Emissions :

160.90	lb/hour	300.90	tons/year

5. Method of Compliance :
   Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 20, in combination with daily records of NOx emissions based on continuous NOx emissions monitoring. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

Compliance Method Code : +* Compliance Test Frequency : +

Fequency Base Date : +

Regulation : +

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

   Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	8.54	*	lbs/hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :				
	8.54	lb/hour	15.97	tons/year
5. Method of Compliance : Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 5.				
Compliance Method Code :	+*	Compliance Test Frequency :		+
Fequency Base Date :	+			
Regulation :	+			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable emissions request based on current permit limit.				

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 3

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.10	*	lbs/MMBtu	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	8.54	lb/hour	15.97	tons/year

5. Method of Compliance :
Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 5.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :	PM/PM10			
3. Requested Allowable Emissions and Units :	8.54	*	lbs/hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	8.54	lb/hour	15.97	tons/year

5. Method of Compliance :
Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 5.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 4

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.10	*	lbs/MMBtu	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	8.54	lb/hour	15.97	tons/year

5. Method of Compliance :
Annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 5.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 4.46 * lbs/hr *
   Allowable Emissions Unit : +

4. Equivalent Allowable Emissions :

4.46	lb/hour	8.33	tons/year

5. Method of Compliance :
   Fuel analysis in accordance with 40 CFR 72.7(d)(2) and annual stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within 45 days of the date June 1, conducted in accordance with 40CFR60, Appendix A, using EPA Method 6 or ASTM D 2880-71 for sulfur in fuel oil. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

Compliance Method Code : +* Compliance Test Frequency : +

Fequency Base Date : +

Regulation : +

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

   Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :	VOC			
3. Requested Allowable Emissions and Units :	26.81	*	lbs/hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	26.81	lb/hour	50.13	tons/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 25.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 6

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	1.00	*	gram/hp-hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :	26.81	lb/hour	50.13	tons/year

5. Method of Compliance :
Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 10.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on current permit limit.

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Pollutant Information Section 7

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER	*	
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.00	*	lbs/hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :				
	0.00	lb/hour	0.00	tons/year
5. Method of Compliance : Stack testing (while operating within 90% to 100% of the maximum heat input rate of 85.4 MMBtu/hr) within one year prior to the expiration date of the operating permit in accordance with 40CFR60, Appendix A, using EPA Method 10.				
Compliance Method Code :	+*	Compliance Test Frequency :		+
Fequency Base Date :	+			
Regulation :	+			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable emissions request based on current permit limit.				

Emissions Unit Information Section 7

24 MW Gas Turbine Electric Generator

Pollutant Information Section 1

Full-load time: 2,888.5 hours
More if part-load.

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	20.00	*	ppmvd @ 15% O2	*
Allowable Emissions Unit :		+		

CO

4. Equivalent Allowable Emissions :

16.00	lb/hour	24.28	tons/year

5. Method of Compliance :

Fuel consumption and power output monitoring combined with use of an emissions factor taken from an emissions factor vs. load curve which will be developed. The curve will be plotted based on emissions factors for 50%, 75%, and 100% load (based on manufacturer's data for similar units).

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on PSD permit application previously submitted for the unit. CO emissions will be limited to 20 ppmvd @ 15% O2 (16 lbs/hr), with the exception that they may increase to 136 ppmvd @ 15% O2 (64 lbs/hr) during part load operation. Allowable annual emissions are based on a proposed fuel consumption limit of 7.1 million gallons per year. — OK

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER	*	
2. Future Effective Date of Allowable Emissions :		CO	
3. Requested Allowable Emissions and Units :	136.00	* ppmvd @ 15% O2	*
Allowable Emissions Unit :		+	
4. Equivalent Allowable Emissions :		limited to 152 tpy	
64.00 (x 2,888.5 hours/year = 92.4 tpy)	lb/hour	160.52	tons/year

5. Method of Compliance :
Fuel consumption and power output monitoring combined with use of an emissions factor taken from an emissions factor vs. load curve which will be developed. The curve will be plotted based on emissions factors for 50%, 75%, and 100% load (based on manufacturer's data for similar units).

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on PSD permit application previously submitted for the unit. CO emissions will be limited to 20 ppmvd @ 15% O2 (16 lbs/hr), with the exception that they may increase to 136 ppmvd @ 15% O2 (64 lbs/hr) during part load operation. Allowable annual emissions are based on a proposed fuel consumption limit of 7.1 million gallons per year.

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	75.00	*	ppmvd @ 15% O2	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :				
96.00 ok	lb/hour		146.00 (x 2,888.5 = 138) not in permit	tons/year

5. Method of Compliance :
Initial stack testing (while operating within 10% of the maximum LHV heat input rate of 311.6 MMBtu/hr) will be conducted in accordance with EPA Method 20 as published in 40CFR60, Appendix A, or State approved equivalent method. Compliance with the NOx emission limits shall be determined by comparing the ratio of water to fuel for that load utilized during the most recent satisfactory compliance test. A 24 hour recording chart to continuously monitor the ratio of water (gpm) to fuel oil (gpm) and the electrical output in MW will be properly maintained and calibrated so as to be functional at all times when the generator is in use. The system shall be accurate to within +/- 5.0 percent. Additionally, stack testing will be conducted within no more than 120 days and no less than 60 days prior to the expiration date of the operating permit, to be submitted with the application for renewal of the operating permit.

Compliance Method Code :	+*	Compliance Test Frequency :	+
Fequency Base Date :	+		
Regulation :	+		

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

Allowable emissions request based on PSD permit application previously submitted for the unit. Allowable annual emissions are based on a proposed fuel consumption limit of 7.1 million gallons per year.

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :	PM/PM10			
3. Requested Allowable Emissions and Units :	18.00	*	lbs/hr	*
Allowable Emissions Unit :		+		
4. Equivalent Allowable Emissions :				
18.00 ok	lb/hour	45.00 Permit says 43.0	tons/year	
5. Method of Compliance : Fuel consumption monitoring in combination with emissions factor based on manufacturer's data for similar units.				
Compliance Method Code :	+*	Compliance Test Frequency :		+
Fequency Base Date :	+			
Regulation :	+			

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

Allowable emissions request based on PSD permit application previously submitted for the unit. Allowable annual emissions are based on a proposed fuel consumption limit of 7.1 million gallons per year.

Emissions Unit Information Section _____

Pollutant Information Section _____

Allowable Emissions Information Section _____

Test Methods

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VE

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	% *
Exceptional Conditions :	40	%
Maximum Period of Excess Opacity Allowed :	2	min/hour

4. Method of Compliance :

Opacity will be monitored, recorded and reported in accordance with 40 CFR 75 using a continuous emissions monitor. Additionally, annual testing on or within 60 days before the date October 1 in accordance with DEP Method 9, will be conducted while the source is firing No. 6 residual fuel oil within 90-100% of the maximum allowable rate of 515 MMBtu/hr. Testing will be conducted during both sootblowing and normal operating conditions. Testing may be conducted with the source firing No. 6 residual fuel oil at less than 90% of 515 MMBtu/hr; however, if so, subsequent source operation is limited up to 110% of the average No. 6 residual fuel oil heat input rate during the test. Once the unit is so limited, then operation at higher No. 6 residual fuel oil heat input rates is allowed for no more than 15 calendar days for purposes of additional compliance testing to regain the higher rates, not to exceed 515 MMBtu/hr on No. 6 residual fuel oil.

5. Visible Emissions Comment :
Opacity based on Rule 62-296.405(1)(a).

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype : VES

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	60	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	6	min/hour

4. Method of Compliance :

Opacity will be monitored, recorded and reported in accordance with 40 CFR 75 using a continuous emissions monitor. Additionally, annual testing on or within 60 days before the date October 1 in accordance with DEP Method 9, will be conducted while the source is firing No. 6 residual fuel oil within 90-100% of the maximum allowable rate of 515 MMBtu/hr. Testing will be conducted during both sootblowing and normal operating conditions. Testing may be conducted with the source firing No. 6 residual fuel oil at less than 90% of 515 MMBtu/hr; however, if so, subsequent source operation is limited up to 110% of the average No. 6 residual fuel oil heat input rate during the test. Once the unit is so limited, then operation at higher No. 6 residual fuel oil heat input rates is allowed for no more than 15 calendar days for purposes of additional compliance testing to regain the higher rates, not to exceed 515 MMBtu/hr on No. 6 residual fuel oil.

5. Visible Emissions Comment :
60% opacity for up to 3 hrs in 24 hrs, with up to four 6-minute periods of up to 100%. Rule 62-210.700(3).

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
2 MW Diesel Peaking Unit #1

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VE

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	10	min/hour

not in Permit

4. Method of Compliance :

Annual testing in accordance with DER Method 9, conducted while the source is operating within 90% to 100% of its permitted capacity.

5. Visible Emissions Comment :

repeated; now use 62-296.320(4)(b)

General emission standard under 62-296.310(2)(a), FAC. Exceptional conditions opacity limit requested is to allow for excess emissions during startup. As per 62-210.700(1), FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

↓ 5 min./hour... not 10!

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
2 MW Diesel Peaking Unit #2

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VE

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	10	min/hour

4. Method of Compliance :

Annual testing in accordance with DER Method 9, conducted while the source is operating within 90% to 100% of its permitted capacity.

5. Visible Emissions Comment : 320(4)(b)
General emission standard under 62-296.~~310(2)(a)~~, FAC. Exceptional conditions opacity limit requested is to allow for excess emissions during startup. As per 62-210.700(1), FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
2 MW Diesel Peaking Unit #3

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VE

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	10	min/hour

4. Method of Compliance :

Annual testing in accordance with DER Method 9, conducted while the source is operating within 90% to 100% of its permitted capacity.

5. Visible Emissions Comment :
General emission standard under 62-296.310(2)(a), FAC. Exceptional conditions opacity limit requested is to allow for excess emissions during startup. As per 62-210.700(1), FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VE

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	20	min/hour

4. Method of Compliance :

Annual stack testing within 45 days of the date June 1 in accordance with 40CFR60, Appendix A, using EPA Method 9, in combination with records of opacity based on continuous opacity emissions monitoring. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

5. Visible Emissions Comment :
General emission standard under 62-296.310(2)(a), FAC. Exceptional conditions opacity limit requested is to allow for excess emissions during startup. As per 62-210.700(1), FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VE

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	20	min/hour

4. Method of Compliance :

Annual stack testing within 45 days of the date June 1 in accordance with 40CFR60, Appendix A, using EPA Method 9, in combination with records of opacity based on continuous opacity emissions monitoring. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

5. Visible Emissions Comment :
General emission standard under 62-296.310(2)(a), FAC. Exceptional conditions opacity limit requested is to allow for excess emissions during startup. As per 62-210.700(1), FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 7
24 MW Gas Turbine Electric Generator

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : VE

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	10	min/hour

4. Method of Compliance :

Annual testing conducted within 60 days prior to the anniversary date of the operating permit in accordance with EPA Method 9 as published in 40CFR60, Appendix A, or State approved equivalent method.

5. Visible Emissions Comment :
General emission standard under 62-296.310(2)(a), FAC. Exceptional conditions opacity limit requested is to allow for excess emissions during startup. As per 62-210.700(1), FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
8.8 MW Medium Speed Diesel Unit #1

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype : VEX

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	100	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	60	min/hour

4. Method of Compliance :

The duration of excessive opacity emissions will be monitored to ensure that excessive opacity emissions do not exceed two hours in any 24 hour period. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

5. Visible Emissions Comment :
Requested opacity limit is to allow for malfunction and annual manufacturer's low load testing requirements. As per 62-210.700(1), FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
8.8 MW Medium Speed Diesel Unit #2

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype : VEX

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	100	% *
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	60	min/hour

4. Method of Compliance :

The duration of excessive opacity emissions will be monitored to ensure that excessive opacity emissions do not exceed two hours in any 24 hour period. Note that the unit is exempt from Acid Rain requirements including 40 CFR 75 monitoring requirements.

5. Visible Emissions Comment :
Requested opacity limit is to allow for malfunction and annual manufacturer's low load testing requirements. As per 62-210.700(1), FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE *
2. CMS Requirement :	RULE CMS Requirement Code : +
3. Monitor Information :	Manufacturer : United Sciences, Inc Model Number : 500C Serial Number : 0993634
4. Installation Date :	01-Nov-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Opacity CEM required under 62-297.500(1)(a)1.; FAC - Continuous Emissions Monitioring Requirements and 40CFR75.14 - Regulations for CEMs under Acid Rain Requirements. Performance Specification Test Date: NONE
Performance Specification Test Status :	+
Certification Date (DD-MON-YYYY) :	+

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : CO2 *
2. CMS Requirement : RULE CMS Requirement Code : +
3. Monitor Information : Manufacturer : Thermo Environmental Instruments, Inc Model Number : 41H Serial Number : 41H-47934-279
4. Installation Date : 01-Nov-1994
5. Performance Specification Test Date : 01-Dec-1994
6. Continuous Monitor Comment : CO2 CEM required under 40CFR75.13 - Regulations for CEMs under Acid Rain Requirements.
Performance Specification Test Status : +
Certification Date (DD-MON-YYYY) : +

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code : FLOW *
2. CMS Requirement : RULE CMS Requirement Code : +
3. Monitor Information : Manufacturer : United Sciences, Inc Model Number : Ultraflow 100 (top) Serial Number : 9401768
4. Installation Date : 01-Nov-1994
5. Performance Specification Test Date : 01-Dec-1994
6. Continuous Monitor Comment : Flow CEM required under 40CFR75.11 - Regulations for CEMs under Acid Rain Requirements. There are two flow monitors. This is the top unit.
Performance Specification Test Status : +
Certification Date (DD-MON-YYYY) : +

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	NOX *
2. CMS Requirement :	RULE CMS Requirement Code : +
3. Monitor Information :	Manufacturer : Thermo Environmental Instruments, Inc. Model Number : 42D Serial Number : 42D-49716-284
4. Installation Date :	01-Nov-1994
5. Performance Specification Test Date :	01-Dec-1994
6. Continuous Monitor Comment :	NOx CEM required under 40CFR75.12 - Regulations for CEMs under Acid Rain Requirements.
Performance Specification Test Status :	+
Certification Date (DD-MON-YYYY) :	+

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Continuous Monitoring System : Continuous Monitor 5

1. Parameter Code : SO2 *
2. CMS Requirement : RULE CMS Requirement Code : +
3. Monitor Information : Manufacturer : Thermo Environmental Instruments, Inc Model Number : 43B Serial Number : 43B-48659-281
4. Installation Date : 01-Nov-1994
5. Performance Specification Test Date : 01-Dec-1994
6. Continuous Monitor Comment : SO2 CEM required under 40CFR75.11 - Regulations for CEMs under Acid Rain Requirements.
Performance Specification Test Status : +
Certification Date (DD-MON-YYYY) : +

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Continuous Monitoring System : Continuous Monitor 6

1. Parameter Code :	FLOW *
2. CMS Requirement :	RULE CMS Requirement Code : +
3. Monitor Information :	Manufacturer : United Sciences, Inc Model Number : Ultraflow 100 (bott) Serial Number : 9303444
4. Installation Date :	01-Nov-1994
5. Performance Specification Test Date :	01-Dec-1994
6. Continuous Monitor Comment :	Flow CEM required under 40CFR75.11 - Regulations for CEMs under Acid Rain Requirements. There are two flow monitors. This is the bottom unit.
Performance Specification Test Status :	+
Certification Date (DD-MON-YYYY) :	+

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 5

8.8 MW Medium Speed Diesel Unit #1

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE *
2. CMS Requirement :	OTHER CMS Requirement Code : +
3. Monitor Information :	Manufacturer : Thermo Environmental Instruments, Inc Model Number : 400A Serial Number : 400A-29575-235
4. Installation Date :	01-Feb-1992
5. Performance Specification Test Date :	01-Jan-1995
6. Continuous Monitor Comment :	VE CEM required as a condition of current permit.
Performance Specification Test Status :	+
Certification Date (DD-MON-YYYY) :	+

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 5

8.8 MW Medium Speed Diesel Unit #1

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : NOX *
2. CMS Requirement : OTHER CMS Requirement Code : +
3. Monitor Information : Manufacturer : Thermo Environmental Instruments, Inc Model Number : 42D Serial Number : 42D-30320-237
4. Installation Date : 01-Feb-1992
5. Performance Specification Test Date : 01-Feb-1995
6. Continuous Monitor Comment : NOx CEM required as a condition of current permit.
Performance Specification Test Status : +
Certification Date (DD-MON-YYYY) : +

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

8.8 MW Medium Speed Diesel Unit #2

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE *
2. CMS Requirement :	OTHER CMS Requirement Code : +
3. Monitor Information :	Manufacturer : Thermo Environmental Instruments, Inc. Model Number : 400A Serial Number : 400A-29574-235
4. Installation Date :	01-Feb-1992
5. Performance Specification Test Date :	01-Jan-1995
6. Continuous Monitor Comment :	VE CEM required as a condition of current permit.
Performance Specification Test Status :	+
Certification Date (DD-MON-YYYY) :	+

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

8.8 MW Medium Speed Diesel Unit #2

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : NOX *
2. CMS Requirement : OTHER CMS Requirement Code : +
3. Monitor Information : Manufacturer : Themo Environmental Instruments, Inc. Model Number : 42D Serial Number : 42D-30319-237
4. Installation Date : 01-Feb-1992
5. Performance Specification Test Date : 01-Feb-1995
6. Continuous Monitor Comment : NOx CEM required as a condition of current permit.
Performance Specification Test Status : +
Certification Date (DD-MON-YYYY) : +

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 7

24 MW Gas Turbine Electric Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	WTF * Sulfur Content
2. CMS Requirement :	RULE CMS Requirement Code : +
3. Monitor Information :	Manufacturer : Johnson Yokogawa Model Number : ur 100 Serial Number : 32/BU/525N1
4. Installation Date :	01-May-1993
5. Performance Specification Test Date :	01-Mar-1995
6. Continuous Monitor Comment :	CMS required under 40 CFR 60.334 and as a requirement in the PSD permit.
Performance Specification Test Status :	+
Certification Date (DD-MON-YYYY) :	+

Emissions Unit Information Section _____

Continuous Monitor Information Section _____

Monitor Pollutants :

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

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

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

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

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

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

2. Increment Consuming for Nitrogen Dioxide?

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

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

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

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

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

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

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

Emissions Unit Information Section 2

2 MW Diesel Peaking Unit #1

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

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

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

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

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

2. Increment Consuming for Nitrogen Dioxide?

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

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

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

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

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

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

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

Emissions Unit Information Section 3

2 MW Diesel Peaking Unit #2

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

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

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

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

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

2. Increment Consuming for Nitrogen Dioxide?

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

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

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

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

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

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

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

Emissions Unit Information Section 4

2 MW Diesel Peaking Unit #3

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

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

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

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

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

2. Increment Consuming for Nitrogen Dioxide?

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

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

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

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

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

3. Increment Consuming/Expanding Code :

PM : U	SO2 : U	NO2 : U

4. Baseline Emissions :

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

5. PSD Comment :

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

Emissions Unit Information Section 5

8.8 MW Medium Speed Diesel Unit #1

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[X] 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?

[X] 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 :		

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

Emissions Unit Information Section 6

8.8 MW Medium Speed Diesel Unit #2

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[X] 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?

[X] 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 :		

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

Emissions Unit Information Section 7

24 MW Gas Turbine Electric Generator

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

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

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

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

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

2. Increment Consuming for Nitrogen Dioxide?

[X] 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 :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

37 MW Steam Electric Generator (Ralph Garcia Steam Plant)

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	stialtme.wk4
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Attachment F
13. Compliance Assurance Monitoring Plan :	
14. Acid Rain Application (Hard-copy Required) :	
Attachment G	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
	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.)

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

2 MW Diesel Peaking Unit #1

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 4
2. Fuel Analysis or Specification :	Attachment B
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 :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

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

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

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 3

2 MW Diesel Peaking Unit #2

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 4
2. Fuel Analysis or Specification :	Attachment B
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 :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

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

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

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 4

2 MW Diesel Peaking Unit #3

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 4
2. Fuel Analysis or Specification :	Attachment B
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 :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

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

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

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 5

8.8 MW Medium Speed Diesel Unit #1

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

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

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

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 6

8.8 MW Medium Speed Diesel Unit #2

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

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

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

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 7

24 MW Gas Turbine Electric Generator

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

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

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

STOCK ISLAND POWER PLANT
LIST OF INSIGNIFICANT ACTIVITIES/UNITS
REQUESTED EXEMPTIONS

ACTIVITY/UNIT	RATIONALE FOR INSIGNIFICANCE
I.C. Engine - very small portable fire pump	Exempt pursuant to Rule 62-210.300(3)(a)20, FAC
I.C. Engine - 244 hp Cummins, diesel fired water pump	Exempt pursuant to Rule 62-210.300(3)(a)20, FAC
I.C. Engine - small mobile compressor	Exempt pursuant to Rule 62-210.300(3)(a)20, FAC
I.C. Engine - 115 kW Portable Generator	Exempt pursuant to Rule 62-210.300(3)(a)20, FAC
I.C. Engine - ~25 kW Portable Welder	Exempt pursuant to Rule 62-210.300(3)(a)20, FAC
I.C. Engine - Detroit Diesel, diesel fired black start	Exempt pursuant to Rule 62-210.300(3)(a)20, FAC
No. 2 Fuel Oil Storage Tank #1 - 500,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 931 lbs/yr
No. 2 Fuel Oil Storage Tank #2 - 500,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 931 lbs/yr
No. 2 Fuel Oil Storage Day Tank #1 - 16,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 108 lbs/yr
No. 2 Fuel Oil Storage Day Tank #2 - 16,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 108 lbs/yr
No. 6 Fuel Oil Storage Tank - 1,904,953 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 15 lbs/yr
Fleet Fuel Tank #1 (unleaded gasoline) - 2,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions less than 0.5 tons/yr
Fleet Fuel Tank #2 (gasoline) - 2,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions less than 0.5 tons/yr
Fleet Fuel Tank #3 (gasoline) - 2,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions less than 0.5 tons/yr
Fleet Fuel Tank #4 (diesel) - 2,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions less than 1 lb/yr
Diesel Fire Pump No. 2 Fuel Oil Storage Tank - ~2.5' dia x 6' side	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions very small
Compressed hydrogen bottles	Exempt pursuant to Rule 62-213.430(6), FAC; No emissions
Lube Oil Storage Tank - 10,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Very low vapor pressure and throughput
Waste Oil Storage Area	Exempt pursuant to Rule 62-213. 430 (6), FAC; Used oil stored in closed 55 gallon drums; No emissions
Turbine Oil Storage Area	Exempt pursuant to Rule 62-213.430(6), FAC; Oil stored in closed 55 gallon drums; No emissions
Propane Storage Tank #1	Exempt pursuant to Rule 62-213.430(6), FAC; No emissions
Propane Storage Tank #2	Exempt pursuant to Rule 62-213.430(6), FAC; No emissions
Hazardous Materials Containment Area	Exempt pursuant to Rule 62-213.430(6), FAC; Materials stored in closed containers; No emissions
Hazardous Waste Containment Area	Exempt pursuant to Rule 62-213.430(6), FAC; Materials stored in closed containers; No emissions
Wastewater Retention Tank	Exempt pursuant to Rule 62-213.430(6), FAC; No emissions
Miscellaneous painting activities	Exempt pursuant to Rule 62-210.300(3)(a)22, FAC Should be 23
Miscellaneous welding activities	Exempt pursuant to Rule 62-210.300(3)(a)16, FAC
Storage & use of chemicals solely for water treatment	Exempt pursuant to Rule 62-213.430(6), FAC; Very low vapor pressures and small quantities/DEP presumptive exemption
Parts Washers (4) (hydrocarbon solvent)	Exempt pursuant to Rule 62-210.300(3)(a)24, FAC Should be 26
Oil/Water Separator	Exempt pursuant to Rule 62-213.430(6), FAC; Very low pressures; No emissions

STOCK ISLAND POWER PLANT
ALTERNATIVE METHODS OF OPERATION - RALPH GARCIA STEAM PLANT

Alternative Method #1: The boiler will fire No. 6 residual fuel oil.

Alternative Method #2: The boiler will fire No. 2 distillate fuel oil.

) in existing Permit

Alternative Method #3: The boiler will fire propane.

↖ new

Stialtme.wk4

STOCK ISLAND POWER PLANT
List of Equipment/Activities Regulated under Title VI

Equipment that contains more than 50 lbs of charge of any Class I or Class II ozone-depleting substance regulated under Title VI of the CAA:

1) Main Chiller - Carrier Unit (model #30HR050630); contains 80 lbs R22

STOCK ISLAND POWER PLANT
Precautions to Prevent Emissions of Unconfined Particulate Matter

Precautions taken to prevent and control unconfined emissions of particulate matter include receiving delivery of fuel oil by barge rather than trucks and using paved surfaces for the fuel trucks which deliver vehicle fuel. Additionally, watering will be used on an as-needed basis to prevent emissions from unpaved areas.

unconfpm.WK4

Facility Pollutant # 2; Facility Pollutant Estimated Emissions
Facility Pollutant # 3; Facility Pollutant Estimated Emissions
Facility Pollutant # 4; Facility Pollutant Estimated Emissions
Facility Pollutant # 5; Facility Pollutant Estimated Emissions
Facility Pollutant # 7; Facility Pollutant Estimated Emissions
Facility Pollutant # 9; Facility Pollutant Estimated Emissions
Facility Pollutant # 1; Facility Pollutant Estimated Emissions
Facility Pollutant # 2; Facility Pollutant Estimated Emissions
Emissions Unit # 1; Pollutant # 1; Total Percent Efficiency of Control
Emissions Unit # 1; Pollutant # 1; Pollutant Estimated Emissions Comme
Emissions Unit # 1; Pollutant # 2; Total Percent Efficiency of Control
Emissions Unit # 1; Pollutant # 2; Pollutant Estimated Emissions Comme
Emissions Unit # 1; Pollutant # 5; Total Percent Efficiency of Control
Emissions Unit # 1; Pollutant # 6; Total Percent Efficiency of Control
Emissions Unit # 1; Pollutant # 6; Pollutant Estimated Emissions Comme
Emissions Unit # 2; Pollutant # 1; Total Percent Efficiency of Control
Emissions Unit # 2; Pollutant # 1; Pollutant Estimated Emissions Comme
Emissions Unit # 2; Pollutant # 2; Total Percent Efficiency of Control
Emissions Unit # 2; Pollutant # 2; Pollutant Estimated Emissions Comme
Emissions Unit # 2; Pollutant # 3; Total Percent Efficiency of Control
Emissions Unit # 2; Pollutant # 3; Pollutant Estimated Emissions Comme
Emissions Unit # 2; Pollutant # 4; Total Percent Efficiency of Control
Emissions Unit # 2; Pollutant # 4; Pollutant Estimated Emissions Comme
Emissions Unit # 2; Pollutant # 5; Total Percent Efficiency of Control
Emissions Unit # 2; Pollutant # 5; Pollutant Estimated Emissions Comme
Emissions Unit # 2; Pollutant # 6; Total Percent Efficiency of Control
Emissions Unit # 2; Pollutant # 6; Pollutant Estimated Emissions Comme
Emissions Unit # 3; Pollutant # 1; Total Percent Efficiency of Control
Emissions Unit # 3; Pollutant # 1; Pollutant Estimated Emissions Comme
Emissions Unit # 3; Pollutant # 2; Total Percent Efficiency of Control
Emissions Unit # 3; Pollutant # 2; Pollutant Estimated Emissions Comme
Emissions Unit # 3; Pollutant # 3; Total Percent Efficiency of Control
Emissions Unit # 3; Pollutant # 3; Pollutant Estimated Emissions Comme
Emissions Unit # 3; Pollutant # 4; Total Percent Efficiency of Control
Emissions Unit # 3; Pollutant # 4; Pollutant Estimated Emissions Comme
Emissions Unit # 3; Pollutant # 5; Total Percent Efficiency of Control
Emissions Unit # 3; Pollutant # 5; Pollutant Estimated Emissions Comme
Emissions Unit # 3; Pollutant # 6; Total Percent Efficiency of Control
Emissions Unit # 3; Pollutant # 6; Pollutant Estimated Emissions Comme
Emissions Unit # 4; Pollutant # 1; Total Percent Efficiency of Control
Emissions Unit # 4; Pollutant # 1; Pollutant Estimated Emissions Comme
Emissions Unit # 4; Pollutant # 2; Total Percent Efficiency of Control
Emissions Unit # 4; Pollutant # 2; Pollutant Estimated Emissions Comme
Emissions Unit # 4; Pollutant # 3; Total Percent Efficiency of Control
Emissions Unit # 4; Pollutant # 3; Pollutant Estimated Emissions Comme
Emissions Unit # 4; Pollutant # 4; Total Percent Efficiency of Control
Emissions Unit # 4; Pollutant # 4; Pollutant Estimated Emissions Comme
Emissions Unit # 4; Pollutant # 5; Total Percent Efficiency of Control
Emissions Unit # 4; Pollutant # 5; Pollutant Estimated Emissions Comme
Emissions Unit # 4; Pollutant # 6; Total Percent Efficiency of Control

Emissions Unit # 4; Pollutant # 6; Pollutant Estimated Emissions Comme
Emissions Unit # 5; Pollutant # 1; Total Percent Efficiency of Control
Emissions Unit # 5; Pollutant # 3; Total Percent Efficiency of Control
Emissions Unit # 5; Pollutant # 4; Total Percent Efficiency of Control
Emissions Unit # 5; Pollutant # 5; Total Percent Efficiency of Control
Emissions Unit # 5; Pollutant # 6; Total Percent Efficiency of Control
Emissions Unit # 5; Pollutant # 7; Total Percent Efficiency of Control
Emissions Unit # 6; Pollutant # 1; Total Percent Efficiency of Control
Emissions Unit # 6; Pollutant # 3; Total Percent Efficiency of Control
Emissions Unit # 6; Pollutant # 4; Total Percent Efficiency of Control
Emissions Unit # 6; Pollutant # 5; Total Percent Efficiency of Control
Emissions Unit # 6; Pollutant # 6; Total Percent Efficiency of Control
Emissions Unit # 6; Pollutant # 7; Total Percent Efficiency of Control
Emissions Unit # 6; Pollutant # 8; Emissions Factor Unit
Emissions Unit # 6; Pollutant # 8; Emissions Factor
Emissions Unit # 6; Pollutant # 8; Emissions Method Code
Emissions Unit # 6; Pollutant # 8; Total Percent Efficiency of Control
Emissions Unit # 6; Pollutant # 8; Potential Emissions lbs/hr
Emissions Unit # 6; Pollutant # 8; Potential Emissions tons/yr
Emissions Unit # 6; Pollutant # 8; Calculations of Emissions
Emissions Unit # 6; Pollutant # 8; Emission Factor Reference
Emissions Unit # 6; Pollutant # 8; Synthetically Limited
Emissions Unit # 6; Pollutant # 8; Pollutant Estimated Emissions Comme
Emissions Unit # 7; Pollutant # 1; Total Percent Efficiency of Control
Emissions Unit # 7; Pollutant # 3; Total Percent Efficiency of Control
Emissions Unit # 7; Pollutant # 4; Total Percent Efficiency of Control
Emissions Unit # 7; Pollutant # 5; Total Percent Efficiency of Control
Emissions Unit # 7; Pollutant # 6; Total Percent Efficiency of Control


1. #1 Demin. Water Tank.
2. #2 Demin. Water Tank.
3. #3 City Water Tank.
4. Steam plant Stack.
5. Fire Protection Pump House.
6. #2 Diesel Fuel Tank(os)
7. #1 Diesel Fuel Tank.
8. Bunker "C" Tank.
9. Convault Tanks(4)
10. Garage.
11. MSD Building
12. 1, 2, and 3 High speed Diesels.
13. #1 + #2 Diesel Day Tanks, Lube Oil Tank and Retention Tank.
N
14. Steam Power Plant.
15. Warehouse.
16. MSD Stack.
FKAA
H2O
FKAA

Figure 2

PROCESS FLOW DIAGRAM

STOCK ISLAND STEAM UNIT #1

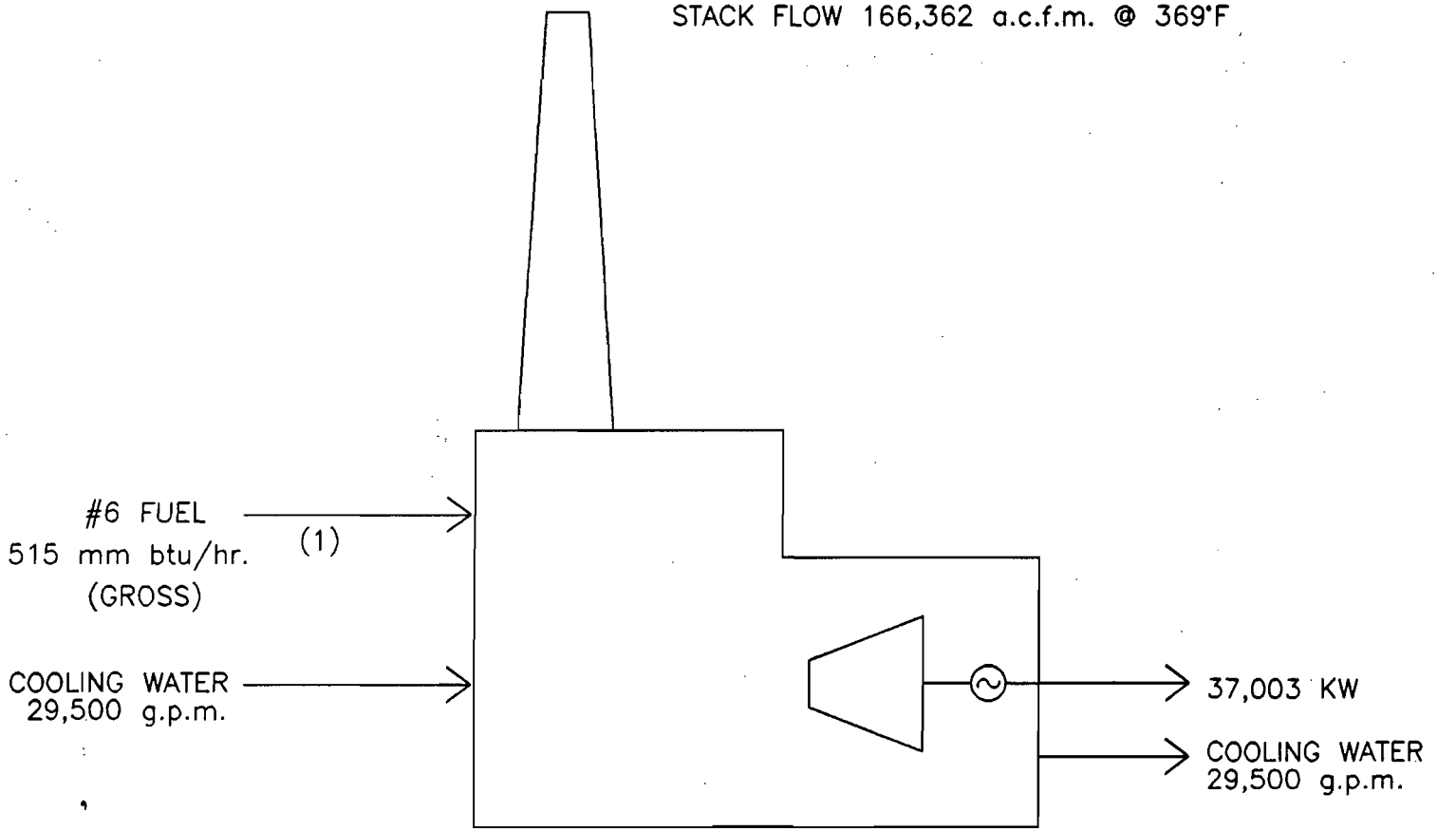


Figure 3

(1). BASED ON NET HEAT RATE OF 11,130 BTU/KWH, NET POWER RATE OF 35,153 KW AND A 5% AUXILIARY POWER REQUIREMENT FOR THE PLANT.

CITY ELECTRIC SYSTEM
KEY WEST, FLORIDA
DATE: 5-15-95

PROCESS FLOW DIAGRAM

STOCK ISLAND HIGH SPEED DIESEL UNITS 1, 2 & 3.

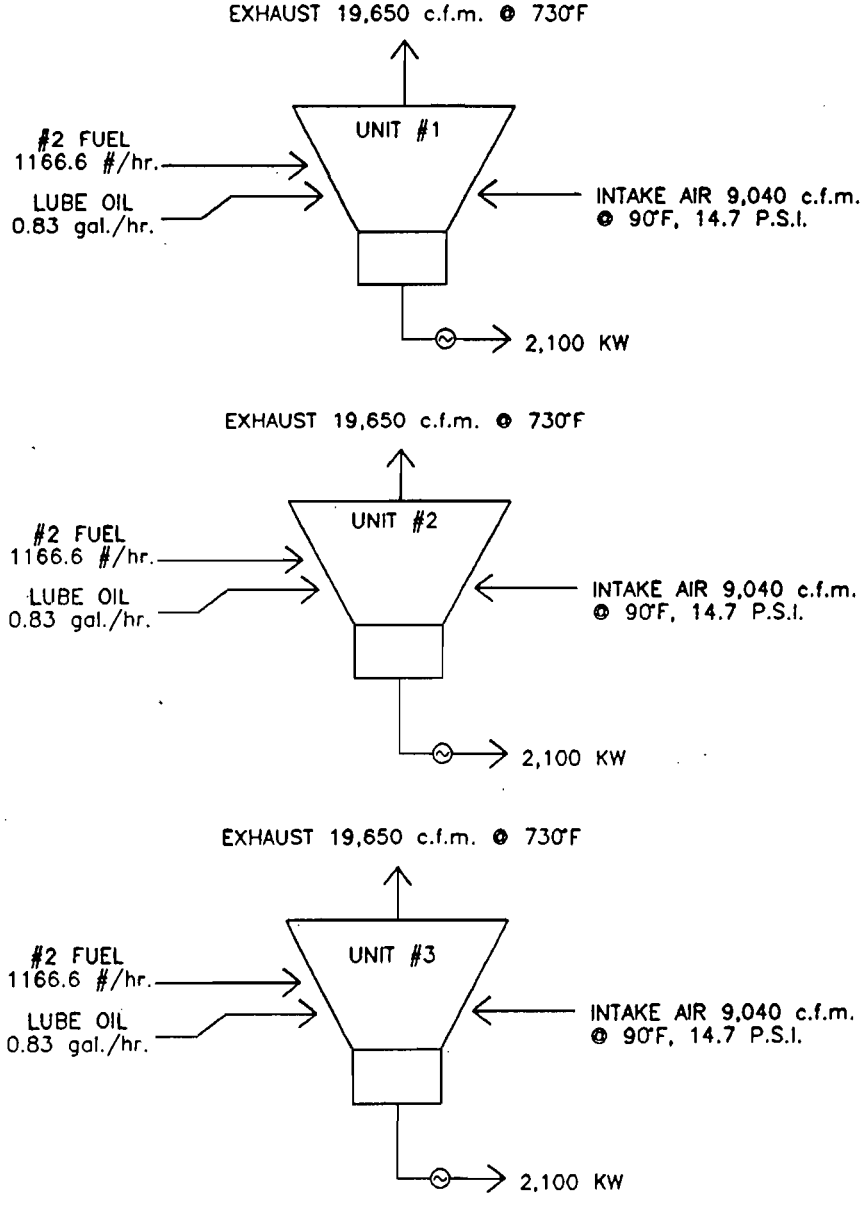


Figure 4

CITY ELECTRIC SYSTEM
KEY WEST, FLORIDA
DATE: 5-15-95

PROCESS FLOW DIAGRAM

STOCK ISLAND MEDIUM SPEED DIESEL UNITS 1 & 2

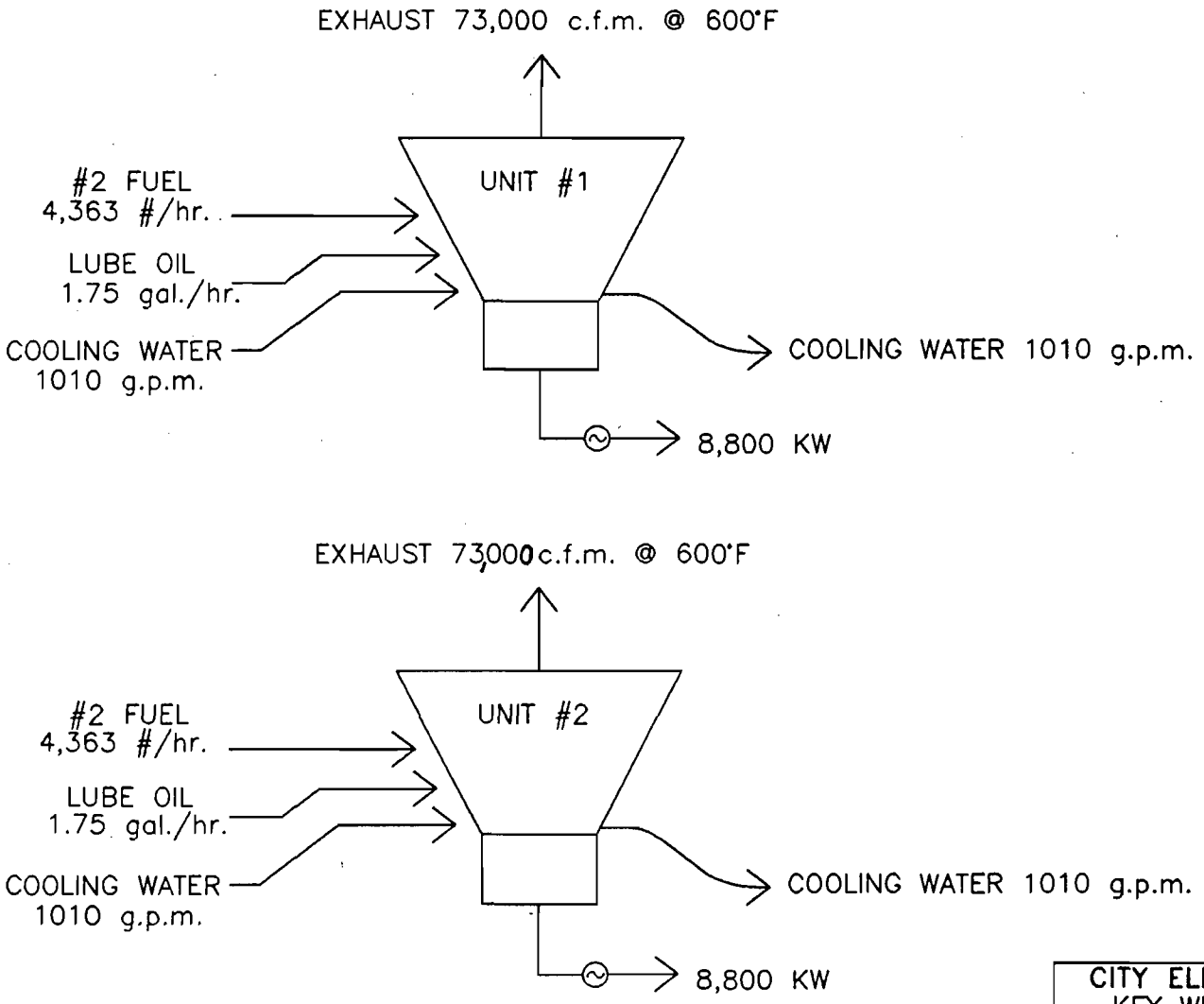


Figure 5

CITY ELECTRIC SYSTEM
KEY WEST, FLORIDA
DATE: 5-15-95

PROCESS FLOW DIAGRAM

STOCK ISLAND COMBUSTION TURBINE #1

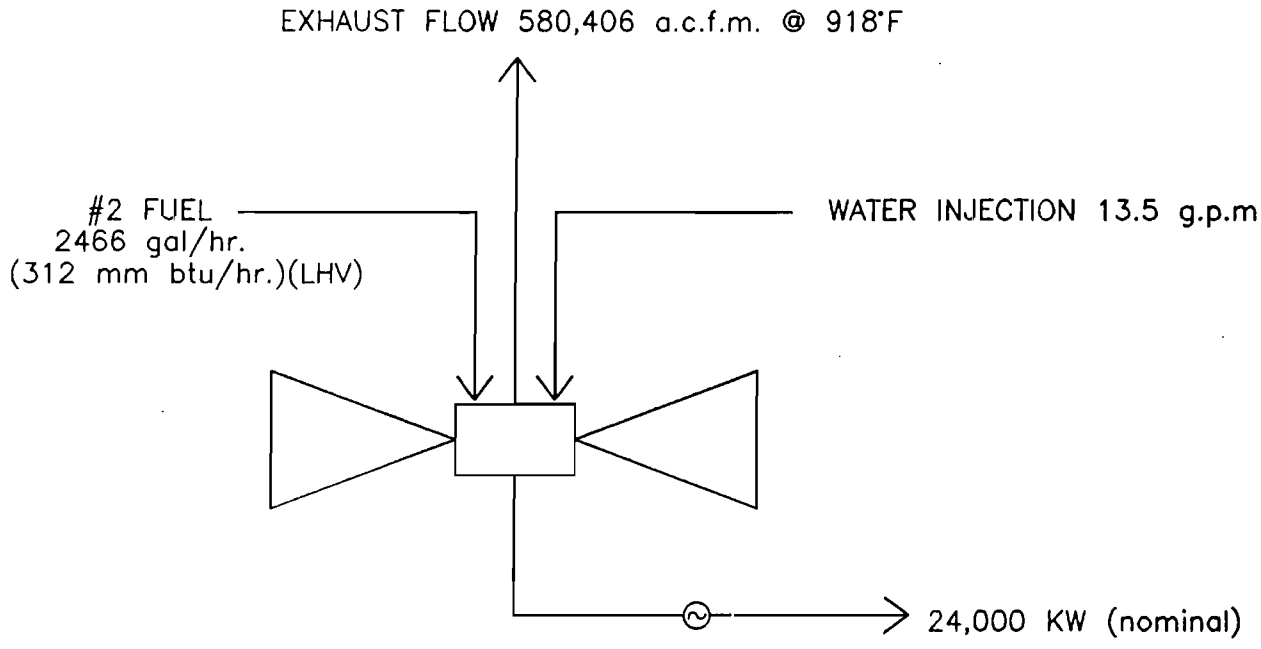


Figure 6

CITY ELECTRIC SYSTEM
KEY WEST, FLORIDA
DATE: 5-15-95

Attachment A

COMPLIANCE STATEMENT

"I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete."

Leo Carey
Manager

Attachment B

Fuel Analyses for No. 6 Fuel Oil, No. 2 Fuel Oil, and Propane

CITY ELECTRIC SYSTEM
MATERIAL RECEIPT

Received From: Coastal Fuels & Marketing, Inc. Date: 10/19/94

Delivery at: Stock Island Power Plant

Item	Quantity	Description as listed on Purchase Order
Fuel Oil #6		Barge: #25

	Barrels:	Gallons:
All Tanks	9,142.58	383,988
Less	395.16	16,597
Total Received	8,747.42	367,391

API: 10.2

Sulfur: 1.87%

Approved Department Head

Carl Jansen, Jr., Production Manager

PANAIR LABORATORY, INC.

4301 N.W. 72 AVE., MIAMI, FL 33166 (305) 594-9055 FAX (305) 477-9137

LABORATORY NO. 29809T

AWB NO. UPS I.D. 4360

FUEL OIL ANALYSIS

ORIGIN	FUEL TYPE	CUSTOMER
Key West	Fuel Oil	City Electric System
DATE SAMPLED	RECEIVED AT LAB	TEST COMPLETED
2/15/95	2/17/95	2/23/95
REFINER	REFINER'S DESIGNATION	SAMPLED FROM
-	No. 2 Diesel	No. 2 Diesel; P.O. 930675

This report relates to the sample tested and does not guarantee the bulk of the material to be of equal quality.

ANILINE POINT °F (D611)	
APPEARANCE, VISUAL	
ASH, % WGT. (D482)	
ASPHALTENES, % WGT. (IP 143/82)	
CARBON RESIDUE CONRADSON (ON 10% B), % WGT. (D189)	
CETANE INDEX (D976)	
CETANE NUMBER (D613)	
CLOUD POINT °F (D2500)	
COPPER CORROSION (3 HRS 122 °F/212 °F) (D 130)	
COLOR, ASTM (D1500)	
FIRE POINT °F COC (D92)	
FLASH POINT °F COC (D92)	
FLASH POINT PENSKY-MARTENS °F (D93)	
GROSS CALORIFIC VALUE, BTU/LB. (D240)	
GROSS CALORIFIC VALUE (CALCULATED)	
GRAVITY, API @ 60 F (D287)	
SPECIFIC GRAVITY @ 60 F /60 F	
DENSITY @ 15° C	
POUNDS PER GALLON @ 60 F	
NEUTRALIZATION NUMBER mgKOH/gm (D974)	
OXIDATION STABILITY, mg/100 ml. (D 2274)	
POUR POINT °F (D97)	
SEDIMENT BY EXTRACTION, % MASS (D473)	
SEDIMENT BY HOT FILTRATION, % MASS	
SULFUR, % WGT., X-RAY (D4294)	
SULFUR, % WGT. (D 129)	0.05
VISCOSITY, KINEMATIC @ 50° C CST (D445)	
VISCOSITY, KINEMATIC @ 40° C CST (D445)	
WATER BY DISTILLATION, % WGT. (D95)	
WATER AND SEDIMENT, % VOL. (D1796)	
WATER AND SEDIMENT, % VOL. (D2709)	
SUSPENDED SEDIMENT mg/100 ml. (D2276)	
THRUPUT, LITERS	

DISTILLATION (D86)

% RECOVERY	F	C
IBP		
10		
20		
30		
40		
50		
60		
70		
80		
90		
95		
END POINT		

RECOVERY ____ %
RESIDUE ____ %
LOSS ____ %

ELEMENTS BY ATOMIC ABSORPTION, PPM

ALUMINUM (Al)	
CALCIUM (Ca)	
CHROMIUM (Cr)	
COPPER (Cu)	
IRON (Fe)	
LEAD (Pb)	
MAGNESIUM (Mg)	
MANAGANESE (Mn)	
NICKEL (Ni)	
POTASSIUM (K)	
SILICON (Si)	
SODIUM (Na)	
SODIUM + POTASSIUM	
VANADIUM (V)	
ZINC (Zn)	

Carl E. Johnson, President

3/93

PROPANE

PRP

Common Synonyms	Liquefied compressed gas	Colorless	Odorless-may have skunk odor added
Dimethylmethane	Liquid floats and boils on water. Flammable visible vapor cloud is produced.		

Stop discharge if possible. Keep people away
Shut off ignition sources and call fire department
Stay upwind and use water spray to "knock down" vapor
Notify local health and pollution control agencies

Fire

FLAMMABLE.
Containers may explode in fire.
Flashback along vapor trail may occur.
Vapor may explode if ignited in an enclosed area.
Stop flow of gas if possible.
Cool exposed containers and protect men effecting shut-off with water
Let fire burn.

Exposure

CALL FOR MEDICAL AID

VAPOR
Not irritating to eyes, nose or throat.
If inhaled, will cause dizziness, difficult breathing, or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration
If breathing is difficult, give oxygen

LIQUID
May cause frostbite.
Flush affected areas with plenty of water.
DO NOT RUB AFFECTED AREAS

Water Pollution

Not harmful to aquatic life.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook)
Issue warning-high flammability
Restrict access
Evacuate area

2. LABEL

2.1 **Category:** Flammable gas
2.2 **Class:** 2

3. CHEMICAL DESIGNATIONS

3.1 **CG Compatibility Class:** Paraffin
3.2 **Formula:** $CH_3CH_2CH_3$
3.3 **IMO/UN Designation:** 2.0/1978
3.4 **DOT ID No.:** 1978
3.5 **CAS Registry No.:** 74-98-6

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquefied compressed gas
4.2 **Color:** Colorless
4.3 **Odor:** Faint gassy

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Self-contained breathing apparatus for high concentrations of gas.
5.2 **Symptoms Following Exposure:** Vaporizing liquid may cause frostbite. Concentrations in air greater than 10% cause dizziness in a few minutes. 1% concentrations give the same effect in 10 min. High concentrations cause asphyxiation
5.3 **Treatment of Exposure:** Remove to open air. If victim is overcome by gas, apply artificial respiration. Guard against self-injury if confused
5.4 **Threshold Limit Value:** Asphyxiant
5.5 **Short Term Inhalation Limits:** Data not available
5.6 **Toxicity by Ingestion:** Not pertinent
5.7 **Late Toxicity:** None
5.8 **Vapor (Gas) Irritant Characteristics:** Vapors are nonirritating to the eyes and throat.
5.9 **Liquid or Solid Irritant Characteristics:** No appreciable hazard. Practically harmless to the skin because it evaporates quickly.
5.10 **Odor Threshold:** 5,000-20,000 ppm
5.11 **IDLH Value:** 20,000 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** —156°F C.C.
6.2 **Flammable Limits in Air:** 2.1%-9.5%
6.3 **Fire Extinguishing Agents:** Stop flow of gas. For small fires use dry chemicals. Cool adjacent areas with water spray.
6.4 **Fire Extinguishing Agents Not to be Used:** Water
6.5 **Special Hazards of Combustion Products:** Not pertinent
6.6 **Behavior in Fire:** Containers may explode. Vapor is heavier than air and may travel a long distance to a source of ignition and flash back.
6.7 **Ignition Temperature:** 842°F
6.8 **Electrical Hazard:** Class I, Group D
6.9 **Burning Rate:** 8.2 mm/min.
6.10 **Adiabatic Flame Temperature:** 2419. (Est.)

(Continued)

7. CHEMICAL REACTIVITY

7.1 **Reactivity With Water:** No reaction
7.2 **Reactivity with Common Materials:** No reaction
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent
7.7 **Molar Ratio (Reactant to Product):** Data not available
7.8 **Reactivity Group:** 31

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** None
8.2 **Waterfowl Toxicity:** None
8.3 **Biological Oxygen Demand (BOD):** None
8.4 **Food Chain Concentration Potential:** None

9. SHIPPING INFORMATION

9.1 **Grades of Purity:** Research, instrument, or Pure: 99.35+ % Technical: 97.50 %
9.2 **Storage Temperature:** Ambient
9.3 **Inert Atmosphere:** No requirement
9.4 **Venting:** Safety relief

10. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook)
A-B-C-D-E-F-G

11. HAZARD CLASSIFICATIONS

11.1 **Code of Federal Regulations:** Flammable gas
11.2 **MAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	4
Health	
Vapor Irritant	0
Liquid or Solid Irritant	0
Poisons	0
Water Pollution	
Human Toxicity	0
Aquatic Toxicity	0
Aesthetic Effect	0
Reactivity	
Other Chemicals	0
Water	0
Self Reaction	0

11.3 **NFPA Hazard Classification:**

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	4
Reactivity (Yellow)	0

12. PHYSICAL AND CHEMICAL PROPERTIES

12.1 **Physical State at 15°C and 1 atm:** Gas
12.2 **Molecular Weight:** 44.09
12.3 **Boiling Point at 1 atm:** —43.8°F = —42.1°C = 231.1°K
12.4 **Freezing Point:** —305.9°F = —187.7°C = 85.5°K
12.5 **Critical Temperature:** 206.0°F = 96.67°C = 369.67°K
12.6 **Critical Pressure:** 616.5 psia = 41.94 atm = 4.249 MN/m²
12.7 **Specific Gravity:** 0.590 at —50°C (liquid)
12.8 **Liquid Surface Tension:** 16 dynes/cm = 0.016 N/m at -47°C
12.9 **Liquid Water Interfacial Tension:** (est.) 50 dynes/cm = 0.05 N/m at —50°C
12.10 **Vapor (Gas) Specific Gravity:** 1.5
12.11 **Ratio of Specific Heats of Vapor (Gas):** 1.130
12.12 **Latent Heat of Vaporization:** 183.2 Btu/lb = 101.8 cal/g = 4.262×10^5 J/kg
12.13 **Heat of Combustion:** —19,782 Btu/lb = —10,990 cal/g = -460.13×10^5 J/kg
12.14 **Heat of Decomposition:** Not pertinent
12.15 **Heat of Solution:** Not pertinent
12.16 **Heat of Polymerization:** Not pertinent
12.25 **Heat of Fusion:** Data not available
12.26 **Limiting Value:** Data not available
12.27 **Reid Vapor Pressure:** 190 psia

6. FIRE HAZARDS (Continued)

6.11 **Stoichiometric Air to Fuel Ratio:** 15.60 (Est.)
6.12 **Flame Temperature:** Data not available

Attachment C

DESCRIPTION OF CONTROL EQUIPMENT ON UNITS ID 001, 005, 006, AND UNKNOWN (GAS TURBINE)

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Unit ID 001 - Ralph Garcia Steam Generator

The air pollution control associated with the boiler consists of a multiple cyclone for particulate emissions reduction. Design details and manufacturer guarantees for control efficiency for the multiple cyclone are unavailable. The control efficiency of the multiple cyclone is believed to be sufficient for the boiler to meet current applicable particulate emissions limitations.

Units ID 005 and 006 - Medium Speed Diesels

The air pollution control associated with the MSDs consists of ignition timing retard for NO_x emissions reduction. Design details are unavailable. The manufacturer's guarantee for NO_x emissions for each unit is 6 grams/hp-hr. This level is sufficient to meet current NO_x permit limitations.

Unit ID Unknown - Gas Turbine

The air pollution control associated with the gas turbine consists of water injection for NO_x emissions reduction. Design details and manufacturer guarantees for control efficiency for the water injection system are unavailable. The control efficiency of the water injection system is believed to be sufficient for the gas turbine to meet NO_x emissions limits proposed in the PSD application submitted in May 1993 for relocation of the gas turbine to the Stock Island Power Plant. The PSD application is currently pending approval.

Attachment D

DESCRIPTION OF STACK SAMPLING FACILITIES

FOR UNITS ID 001, 005, 006, AND

UNKNOWN (GAS TURBINE)

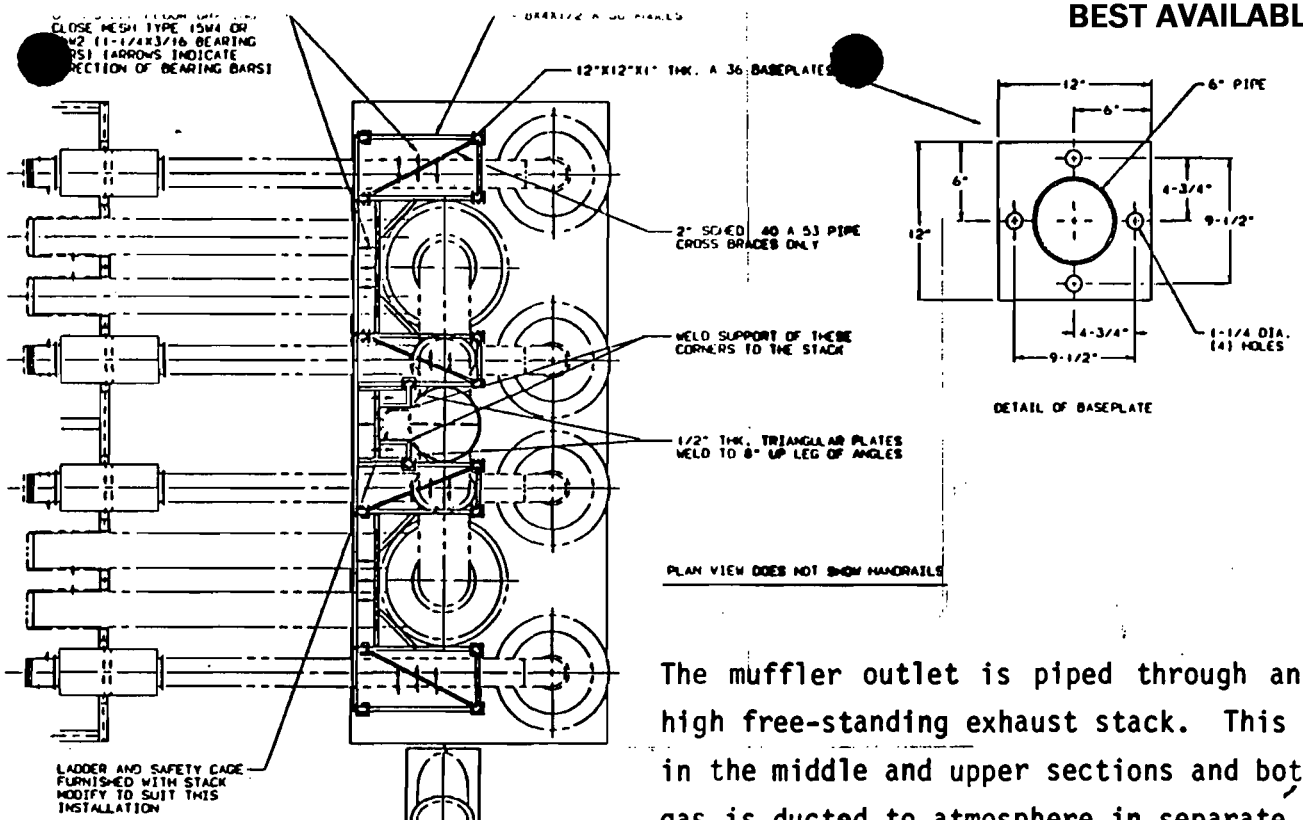
(3.10)

STACK SAMPLING FACILITIES - R.G.S.P. BOILER

The Stack CEM Components include an elevated prefabricated shelter at the stack base containing analyzers, control units, and operator work station. Dual platforms at the 74-feet 6-inch level and at the 82-feet 6-inch level provide access to stack penetrations, nozzles, and associated ancillaries. The platform is accessible by caged ladder.

STAKSAMP.DOC

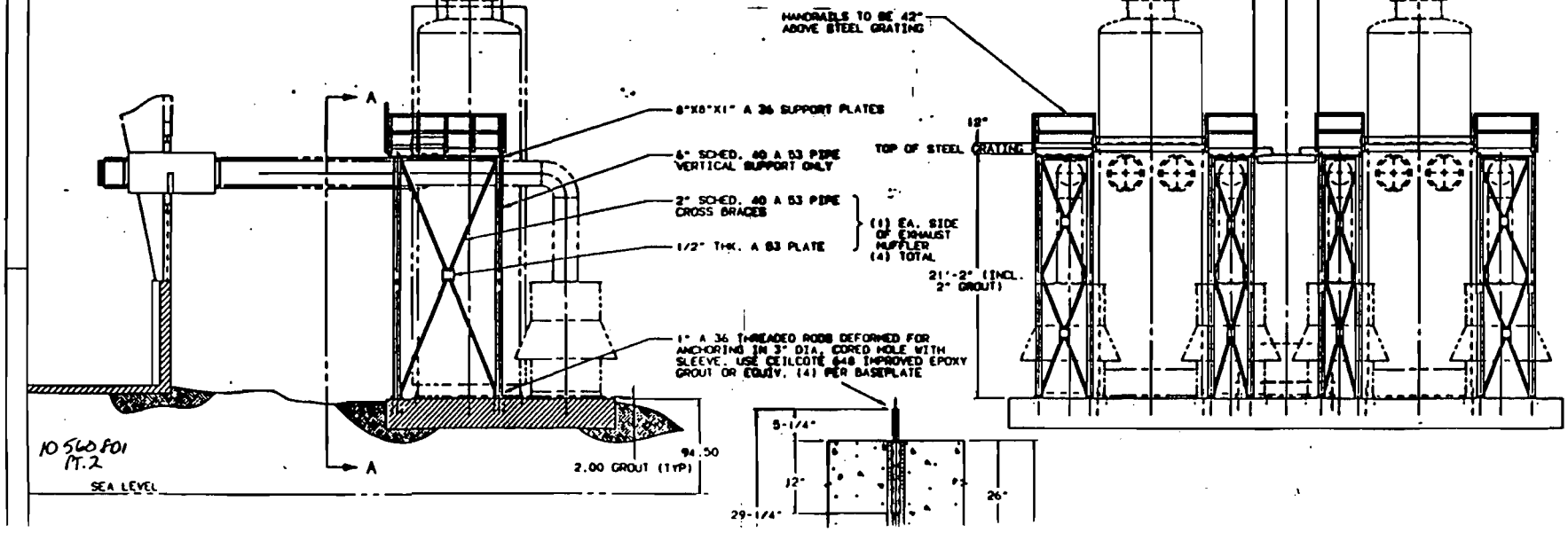
MSD



DETAIL OF BASEPLATE

The muffler outlet is piped through an expansion joint into the 100 ft. high free-standing exhaust stack. This stack has a vertical splatter plate in the middle and upper sections and both engines exhaust into it, thus the gas is ducted to atmosphere in separate pipe sections.

Exhaust emmissions are monitored/sampled in the outlet tube inside the exhaust muffler and a maintenance platform/ladder arrangement is provided for access to the equipment.



10 560 F01
PT. 2

STACK SAMPLING FACILITIES - GAS TURBINE

A single port is located on the side of the gas turbine stack and is accessible from the top of the unit enclosure.

Attachment E

PROCEDURES FOR

STARTUP AND SHUTDOWN

STOCK ISLAND POWER PLANT

Procedures for Startup and Shutdown

The units are brought to load and put online as fast as possible in accordance with manufacturer instructions to minimize opacity emissions.

Attachment F

ADDITIONAL APPLICABLE REQUIREMENTS

Additional applicable requirements for the Ralph Garcia Steam Plant (001) and the associated compliance methods, recordkeeping, and monitoring requirements are as set forth in the current operating permit #A044-245479, attached.

Additional applicable requirements for the three 2-MW diesel peaking units (002, 003, 004) and the associated compliance methods, recordkeeping, and monitoring requirements are as set forth in the current operating permit #A044-175804, attached.

Additional applicable requirements for the two 8.8-MW medium speed diesels (005, 006) and the associated compliance methods, recordkeeping, and monitoring requirements are as set forth in the current operating permit #A044-207419 PSD-FL-135, attached.

I N T E R O F F I C E M E M O R A N D U M

Date: 06-Aug-1997 09:45am EST
From: David Knowles FTM
KNOWLES_D@A1@FTM1
Dept: South District Office
Tel No: 941/332-6975
SUNCOM:

TO: Steve Welsh TAL (WELSH_S@A1@DER)

CC: Cindy Phillips TAL (PHILLIPS_C@A1@DER)

Subject: Key West - Stock Island Power Plant

Dear Steve:

a. Start of construction of the 23.5 MW combustion turbine at Stock Island was 22-Jan-96. Notification was received in this office 20-Feb-96. ✓

b. Anticipated date of initial startup was 1-Jun-96. Notification was received 24-Apr-96. ✓

c. Actual startup was 31-Jul-96. Notification was received 5-Aug-96. ✓

d. Anticipated date of testing was 5-Sep-96. Notification was received 5-Aug-96. ✓

e. Performance test (including opacity, PM, NOx, CO and fuel oil analysis was done 5-Sep-96. Test was observed by Jim Edds. All tests were passed. ✓

Sincerely,

David M. Knowles

July 17, 1997

via Facsimile: 2 pages
(904) 922-6979

Mr. Syed Arif
Florida Department of Environmental Protection
2600 Blairstone Road
Mill Station 5505
Tallahassee, FL 32399-2400

Subject: **Pre-Application Meeting for Key West/Stock Island Peaking Combustion Turbine**

Dear Mr. Arif:

In accordance with our recent telephone conversation, this letter confirms the subject proposed meeting time and date for July 23, 1997, 10:30 a.m. The purpose of the meeting will be to discuss the proposed project and plans for permitting new combustion turbine ("CT") capacity in Key West. The following is a brief summary of the proposed project.

In order to maintain adequate electric generating reserve capacity, the Utility Board of Key West is planning the addition of peaking combustion turbine capacity at its Stock Island Plant site. Through a recently approved power supply agreement with the Florida Municipal Power Agency ("FMPA"), FMPA will own and finance this new capacity and the Utility Board will operate and maintain the unit(s). The output from the CT(s) will provide reserve generating capacity to the Key West electric system.

A major reason that this new capacity is now needed is the fact that the Utility Board officially retired their 36 MW Stock Island steam unit in late 1996. This unit was retired for a number of reasons, including high operating costs, environmental compliance problems and lack of operating flexibility as a peaking unit.

The proposed combustion turbine (CT) unit(s) is anticipated to be a used refurbished unit(s), either a General Electric Frame 5N unit with a rating of 23.98 MW or two General Electric MS 5001R units rated at 17.9 MW each. Selection of the vendor and award of contract is anticipated in approximately six weeks.

Key permitting issues that we would like to review and discuss with FDEP include:

1. Utilization of emission off-sets for the retired Stock Island steam unit for permitting the CT(s).
2. Limiting annual emissions to avoid the rigors of the PSD permitting process.
3. NO_x emission limitations and control for the CT(s).
4. Permit application requirements and anticipated schedule.

1125 Seventeenth Street, Suite 1900 Denver, CO 80202-2615 Phone (303) 299-5200 Fax (303) 297-2811

If you have any questions concerning these issues prior to the meeting, please feel free to contact me or Mike Henderson at 303-299-5200.

Sincerely,

R. W. BECK, INC.

Ivan L. Clark
Senior Director
Environmental Services

ILC/smm

c: C. Jansen, Utility Board of Key West
K. Plant, Gray, Harris & Robinson
R. Williams, FMFA
N. Guarriello, RWBeck
M. Henderson, RWBeck

STOCK ISLAND STEAM UNIT
Annual Operations

Year	Steam Unit[1] Annual Gross Generation (KWH)	Steam Unit[1] Annual Fuel Consumed (gallons)	Steam Unit[1] Annual Fuel Consumed (pounds)	Steam Unit[2] Annual Fuel Heat Value (Btu/gal.)	Steam Unit Air Emissions (tons/yr) No_x[3]	SO_2[4]	Particulates[5]
1987	61,456,000	5,580,306	45,840,107	151,315	187	1008	65
1988	68,766,000	5,918,157	49,065,295	151,315	198	1079	69
1989	128,378,000	10,969,883	89,578,431	151,315	367	1971	128
1990	90,897,000	7,911,166	65,235,472	151,315	265	1435	93
1991	113,731,000	9,865,331	81,181,809	151,315	330	1786	115
1992	65,897,000	5,883,816	48,353,200	151,178	197	1064	69
1993	40,961,000	3,805,456	31,315,097	151,315	127	689	45
1994	44,567,000	4,239,081	34,934,270	151,470	142	769	50
1995	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
Ten Year Average					181	980	63

[1] Data based on calendar year end production report for Stock Island Steam Unit.

[2] Average #6 fuel heat value has been assumed at 151,315 Btu/gal based on typical fuel delivery values, except for years 1992, 1993 and 1994 which are based on actual fuel heating value measurements.

[3] Based on an emission rate of 67 # NOx per 1000 gallons of fuel burned.

[4] Based on a fuel sulfur content of 2.2 percent.

[5] Based on an emission rate of 23.4 # particulates per 1000 gallons of fuel burned, or 9.19 (S) + 3.22 (#/1000 gallons).

I N T E R O F F I C E M E M O R A N D U M

Date: 30-Jan-1997 04:27pm EST
From: David Knowles FTM
KNOWLES_D@A1@FTM1
Dept: South District Office
Tel No: 941/332-6975
SUNCOM:

TO: Steve Welsh TAL (WELSH_S@A1@DER)

Subject: Key West-Stock Island Power Plant

Dear Steve:

To the best of my knowledge and belief the Key West-Stock Island Power Plant facility number 0870003 is operating in compliance with our rules.

Sincerely,

David M. Knowles

ANNUAL HAP EMISSIONS BASED ON AP-42 FACTORS

UNIT	1000 GALS/YR OF NO. 6	POM	FORMALDEHYDE	OTHER ORGANIC	METALS	TOTAL HAPS
		(0.0013 LB/1000GAL)	(0.061LB/1000GAL)	(0.008 LB/1000GAL	(0.498 LB/1000GAL)	
		TONS/YEAR	TONS/YEAR	TONS/YEAR	TONS/YEAR	TONS/YEAR
1	29,877	0.019	0.911	0.120	7.439	8.490

Each emissions unit [R.G.S.P. boiler (001), (3) hi-speed diesel units (002, 003, and 004), (2) MSD's (005 and 006), and gas turbine (unknown)] is in full compliance with each applicable federal, state, and local regulation, as detailed under Subsection III-B. Emissions Unit Regulations and with all additional applicable requirements (compliance with current operating permits No. A044-245479, A044-175804, A044-207419 PSD-FL-135, and A044-228709), as detailed under Subsection III-B. Emissions Unit Supplemental Information.

During emission testing of the R.G.S.P. boiler (001) in July of 1994, a particulate compliance problem was identified as having resulted from a deterioration of the gunite structural materials inside the stack. Although it was the intent to maintain the unit in a standby mode for operation only in the event of emergency conditions, immediate steps were taken to replace the gunite liner. The stack has now been structurally repaired, at a cost of approximately $150,000, and approximately $12,000 was expended for wiring to upgrade the CEM system for that unit. Particulate testing in October of 1994 demonstrated the unit to be in full compliance with particulate standards. There was some later questions raised by the FDEP as to the number of sampling runs made during soot blowing, and CES is currently undergoing discussions with the FDEP regarding that issue. As noted above, it is anticipated that this unit will remain in a standby mode for operation only in the event of a hurricane or other emergency condition causing a failure of the tie-line. When and if the operational status of this unit is changed, the certification of the CEM system will be done at the time the unit is brought back on line for operation. This information was provided to the FDEP in a meeting in late 1994 and subsequently documented by letter and attachments forwarded to the FDEP on February 2, 1995.

The Medium Speed Diesels experienced one incident of visible emissions excedence for a short period of time on May 13, 1994. That incident resulted at a time when only one of the MSDs was in operation and a power failure in the tie-line occurred. This necessitated an emergency cold start-up of the second MSD unit, resulting in higher than normal opacity readings for a short period of time. The cold start-up of the second diesel does not reflect normal operating conditions, but was necessary on that occasion in order to provide electricity to the citizens of Key West during events beyond the control of CES. This information was provided to the FDEP, which determined not to cite CES for a visible emission violation for that occasion.

The FDEP and CES have undergone discussions regarding the maintenance and calibration of the CEM equipment, particularly with respect to the quarterly multi-point calibrations. It is the position of CES that the documentation of linearity from a multi-point calibration is not necessary to verify that the maximum permit limits for NO_x emissions are achieved, and that the daily calibrations performed by CES each time to the equipment is placed into operation are sufficient to adequately reflect and measure NO_x values. Nevertheless, CES has taken steps to achieve required maintenance and record keeping

through arrangements with a service company to perform the quarterly maintenance and multi-point calibrations. In addition, CES has created and filled a new full-time employment position, known as a dedicated CEM technician.

With respect to the high speed diesel units, a contract was entered into with a testing service to perform the 1994 visible emissions tests. However, through some omission or oversight, the 1994 test results were not reported and submitted to the FDEP. (It should be noted that CES has recently refilled the position of its Environmental Supervisor, whose duties will include the proper reporting and submittal of compliance reports.) These units were tested in May of 1995, and the reports showing compliance have been submitted to the FDEP.

As we discussed Monday morning 8-18-97, this list addresses the 3 topics concerning the Combustion Turbine section of the Title V permit.

1. Operational practices to minimize emissions: During start-up the unit will be brought to speed as quickly as possible to minimize emissions. ✓

2. CMS Protocol: Water is injected to control Nox emissions. The CMS consists of water flow measurement, fuel flow measurement and MW measurement recorded on strip charts. Quarterly calibrations are performed on the CMS as indicated in quarterly report submittals. Mr. David Knowles of the FDEP confirmed in a telephone conversation on September 26, 1995 that the CMS equipment used prior to the relocation of of the Combustion Turbine would be acceptable after being relocated. ✓

3. Performance Test Protocol: See attached letter. ✓

Joe Stone
Environmental Services Supervisor
City Electric System-Key West
(305)-295-1148

This takes care of the outstanding permit issues //

ACE AIR CONSULTING & ENGINEERING, INC.
2106 N.W. 67th Place • Suite 4 • Gainesville, Florida • 32606
(904) 335-1889 FAX (904) 335-1891

July 23, 1996

Mr. David Knowles
Florida Department of
Environmental Protection
2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33901

RE: Test Protocol for Key West City Electric Combustion Turbine, AC 44-245399, PSD-FL-210

Dear Mr. Knowles:

The referenced permit requires a test protocol pre-submittal for your review.

Specific Condition A-5 of the permit requires compliance with CFR Part 60 Subpart GG. The NO_x emission limit is therefore a bit ambiguous. Subpart GG defines an allowable emission of 75 ppm at ISO conditions with adjustments based on fuel bound nitrogen and heat rate. Specific Condition B cites 75 ppm at 15% oxygen. I believe current FDEP policy would defer to the NSPS specifications. Please correct me if I am in error as I anticipate a Subpart GG emission rate allowable at 80 ppm or higher.

Out test methodology would include NO_x and O_2 determinations at 30%, 50%, 75%, and 100% of attainable load using EPA Reference Method 20. The 30% load test will be performed using a 48 point traverse during which O_2 stratification will be investigated. Anticipating that all points will demonstrate values within the allowable drift of 2% of a 25% range (0.5% O_2), the oxygen traverse will be divided into three 16-point run runs so that the low load Method 20 test can be conducted at the same time. Testing at other load points will be done using either the eight points of lowest O_2 concentration or any eight points if no O_2 stratification is noted.

Testing for PM, CO, and VE will be conducted at full load only using EPA Reference Methods 5B, 10, and 9. Three 1-hour tests will be performed at this load. Ambient or combuster inlet temperature, humidity, and pressure will be monitored for purposes of adjusting NO_x values to ISO conditions.

Please contact me if you disagree with the proposed test plans.

Sincerely,

AIR CONSULTING AND ENGINEERING, INC.

Stephen L. Neck, P.E.

SLN/cvt

ACE File: 404 96 02

cc: Joe Stone, Key West City Electric

UTILITY BOARD OF THE CITY OF KEY WEST

POST OFFICE DRAWER 6100
KEY WEST, FLORIDA 33041-6100

TELEPHONE:(305) 295-1000
TELECOPIER:(305) 295-1145

RALPH GARCIA STEAM PLANT

TELECOPIER TRANSMITTAL FORM

DATE: 8-18-97
TO: STEVE WELSH - FDEP
FROM: JOE STONE
PAGES: 4

Please call me upon receipt: ( )
For your comments: ( )
For your information: (✓)
As we discussed: (✓)
Hard Copy to follow: ( )

Comments:

Our Telecopier is a XEROX #7024 and is answered automatically at (305) 295-1145. If problems in transmission are experienced, please call (305) 295-1140.

Thank You!

904-922-6979

Eden, GA -

OCT. 10