Florida Gas Transmission Company

A Southern Union/El Paso Affiliate

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November 26, 2008

UPS Overnight CERTIFIED MAIL-RETURN RECEIPT

Ms. Trina Vielhauer, Chief Bureau of Air Regulation Florida Department of Environmental Protection 2600 Blairstone, MS 5500 Tallahassee, FL 32399-2400 Phone: 850-921-9504

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Reference:

Facility: 0390029

Compressor Station No. 14, Gadsden County

BUREAU OF AIR REGULATION

Dear Ms. Vielhauer

Subject: Application for Air Construction Permit

Florida Gas Transmission Company (FGT) is proposing to install a new 20,500 hp natural gas fired compressor turbine at Compressor Station No. 14 located in Gadsden County. The facility is a major source under New Source Review definitions, but the proposed modifications will have a NO_x emission increase of less than 40 tpy. Therefore, a state only construction permit is required. FGT is also installing two new emergency generators at the above referenced facility.

No: 0390029-01-A

Enclosed is an Application with supporting documentation for an Air Construction Permit for the proposed modifications. FGT understands that no processing fee is required since this facility is operated under a Part 70 Permit.

If you have any questions or need additional information, please call me at (713) 989-7459.

Sincerely.

Charles Wait Principal Engineer CC: Arnold L. Eisenstein
Frank Diemont
Kevin McGlynn, P.E.
Duane Pierce, AQMcs, LLC
Compressor Station No. 14

Application for Air Permit to Construct

Florida Gas Transmission Company, LLC Phase VIII Expansion Project Quincy Compressor Station No. 14 Quincy, Gadsden County, Florida Facility No. 0390029

November 2008

AQMcs

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1.0 INTRODUCTION

Florida Gas Transmission Company (FGT) is proposing to expand its existing natural gas pipeline facility near Munson, in Gadsden County, Florida (Compressor Station No. 14). This proposed modification is part of FGT's Phase VIII Expansion Project, aimed at increasing the supply capacity of FGT's network servicing domestic suppliers, commercial, and industrial customers in Florida. The scope of work for the Phase VIII Expansion Project includes expansion through the addition of state-of-the-art compressor engines at nine existing compressor stations within the States of Florida and Alabama. Three compressor stations within Florida will receive electric driven turbine compressors and five compressor stations within Florida will receive natural gas-fired turbine compressors.

Compressor Station No. 14 is located in Gadsden County, Florida, south of Quincy on Highway 65 S, approximately 11 miles south of Quincy. Figure 1-1 shows the location of the existing compressor station.

The proposed expansion consists of the installation of a 20,500 bhp natural gas-fired turbine. The turbine will be a Solar Titan 130-20502S unit and will be used solely for transporting natural gas by pipeline for distribution to markets in Florida.

Additionally, FGT is also proposing to add two new emergency generators at this facility. Each of the two new generators will be powered by a 454 bhp, gas-fired reciprocating compressor engine which will meet the new 40 CFR Subpart JJJJ standards.

Based on projected new annual emission rates, the proposed modifications would result in a NO_X potential emission increase of 37.5 tpy and a CO potential emission increase of 38.3 tpy; therefore, this modification will not constitute a significant modification at an existing major stationary source under Prevention of Significant Deterioration (PSD) regulations. Since there will be no PSD significant increase in the emissions of any contaminant, a state only construction permit is required.

This narrative contains three additional sections. Descriptions of the existing operation at FGT's Compressor Station No. 14, the proposed new engine and new emergency generators are presented in Section 2.0. The air quality review requirements and applicability of state and federal regulations are discussed in Section 3.0. References are included in Section 4.0. FDEP permit application forms are provided in Attachment A. Attachment B contains process flow diagrams, Attachment C contains Precautions to Prevent Emissions of Unconfined Particulate Matter and Attachment D provides a plot plan of the facility. Attachment E contains vendor information, Attachment F contains emission calculations, Attachment G provides a recent fuel analysis and Attachment H contains an Exempt Unit list.

(65) TO HAVANA QUINCY **①** 270 annannii i TO GREENSBORD QUINCY TO COMP. STA. **(55) (5)** COMP. STA. 14 The locations of FGTCo, facilities shown on this map are approximate. Please contact the local FGTCo, office to determine the actual locations of its facilities (see phone list). FLORIDA GAS TRANSMISSION COMPANY Houston, Texas COMPRESSOR STATION NO. 14 GADSDEN COUNTY, FLORIDA

Figure 1-1 Location Map

2.0 PROJECT DESCRIPTION

A plot plan of FGT's Compressor Station No. 14, showing the location of the plant boundaries, and the location of the new turbine and generators is presented in Attachment D. The following sections provide a description of the existing operations at this location, as well as a description of the proposed project.

2.1 Existing Operations

FGT's existing Compressor Station No. 14 consists of five 2,000 bhp and one 2,700 bhp natural-gas-fired reciprocating internal combustion (IC) engines, and one 13,000 bhp (ISO) and one 15,700 bhp (ISO) natural gas-fired turbines. Table 2-1 summarizes engine manufacturer, model, and the date of installation for each of the existing engines. The original installation was made in 1958 (Compressor Engines 1401 through 1403). Engine 1404 was installed in 1966 and engine 1405 was installed in 1968. Reciprocating engine 1404 was later modified to reduce emissions in 2002. Compressor Engine 1406 was constructed in 1991and was subject to PSD review. Compressor Engine 1407 was installed in 2001 and Compressor Engine 1408 was installed in 2002.

The existing facility also has supporting equipment including lube and used oil storage tanks, air compressors and emergency generators.

2.2 Proposed Modifications

FGT proposes to increase the horsepower capacity of Compressor Station No. 14, as part of the Phase VIII Expansion Project. This will involve adding a new gas-fired turbine (Compressor Engine 1409). The new engine will be used to increase the volumetric delivery capacity by driving a gas compressor that is a part of a gas transmission line that transports natural gas from source wells in Texas and Louisiana for delivery throughout Florida. Without the proposed modifications, it would not be possible to increase the volumetric delivery capacity necessary to meet both short and long-term demands for natural gas in Florida.

In addition, as part of the project, two new emergency generators will be installed. Each will be powered by a 454 bhp, gas-fired, 4-stroke, rich burn reciprocating compressor engine with emissions that will be controlled to meet the new 40 CFR Subpart JJJJ standards as required. Details of the changes are described in the following sections.

Table 2-1 Summary of Existing Compressor Engines

Engine #	Date of Installation	Туре	Manufacturer	Model #	Brake Horse Power (bhp)
1401	1958	Reciprocating	Worthington	SEHG-8	2,000
1402	1958	Reciprocating	Worthington	LS-8-SG	2,000
1403	1958	Reciprocating	Worthington	LS-8-SG	2,000
1404	1966	Reciprocating	Worthington	LS-8-SG	2,000
1405	1968	Reciprocating	Worthington	LS-8-SG	2,000
1406	1991	Reciprocating	Cooper- Bessemer	GMVR-12C2	2,700
1407	2001	Turbine	Solar	Mars 90 T- 13000S	13,000
1408	2002	Turbine	Nuovo Pignone	PGT-10B	15,700

2.2.1 New Compressor Turbine

FGT proposes to install one new natural gas-fired turbine engine compressor unit at Compressor Station No. 14. The engine is a Solar Titan 130 - 20502S turbine compressor unit rated at 20,500 bhp (ISO). Fuel will be exclusively natural gas from FGT's natural gas pipeline. Engine specifications and stack parameters for the proposed engine are presented in Table 2-2.

Table 2-2 Proposed New Turbine (1409) Specifications and Stack Parameters

Parameter	Design
Compressor Engine	1409
Туре	Gas Turbine
Manufacturer	Solar
Model	Titan 130 20502S
Unit Size (shaft)	19,465 bhp (ISO)
Specific Heat Input (LHV) ^a	7,326 Btu/hp-hr
Specific Heat Input (HHV) ^b	8,112 Btu/hp-hr
Fuel Flow (LHV) ^a	142.59 MM Btu/hr
Fuel Flow (HHV) ^a	157.89 MM Btu/hr
Maximum Fuel Consumption ^c	0.1518 MMscf/hr
Speed	8,351 rpm
Stack Parameters	
Stack Height	55 ft
Stack Diameter	7.5 ft x 8 ft (rectangular)
Exhaust Gas Flow	393,142 lb/h
	232,782 acfm
Exhaust Temperature	944 °F
Exhaust Gas Velocity	64.7 ft/sec

NOTE:

acfm = actual cubic feet per minute.

bhp = brake horsepower.

Btu/hp-hr = British thermal units per brake horsepower per hour.

°F = degrees Fahrenheit.

ft = feet.

ft/sec = feet per second.

MMscf/hr = million standard cubic feet per hour.

rpm = revolutions per minute.

Hourly and annual emissions of regulated pollutants from the proposed new turbine at ISO conditions are presented in Table 2-3. Emissions of oxides of nitrogen (NO_X), carbon monoxide (CO) and non-methane hydrocarbons (NMHC) or volatile organic compounds (VOC) are based on the engine manufacturer's supplied data (See Attachment C). These values are based on ISO conditions. Other factors such as inlet, outlet losses and ambient temperature can affect these rates.

Typically, turbine vendors do not provide information on particulate matter (PM), sulfur dioxide

^a Based on vendor provided lower heat rate value (LVH) of 7,326 Btu/hp-hr, a lower heating value of 939.2 Btu/scf and

^b Based on natural gas with a HHV of 1040 British thermal units per standard cubic foot (Btu/scf).

^c While producing 19,465 bhp at ISO conditions and with gas having HHV of 1040 Btu/scf

(SO2) or hazardous air pollutant (HAP) emissions; therefore, PM and HAP emissions are based upon USEPA publication AP-42 Section 3.1 (USEPA, 2000). Emissions of SO₂ are based on FGT's Federal Energy Regulatory Commission (FERC) certificate limit of 10 grains sulfur per 100 cubic feet of natural gas.

Table 2-3 Proposed New Turbine (1409) Compressor Engine Emissions

Pollutant	Emission Factor	Reference	lb/hr	TPY
Nitrogen Oxides ^a	8.52 lb/hr	Manufacturer Data	8.52	37.31
Carbon Monoxide ^a	8.64 lb/hr	Manufacturer Data	8.64	37.86
Volatile Organic a.b Compounds	0.50 lb/hr	Manufacturer Data	0.50	2.17
Particulate Matter c	0.0066 lb/MMBtu	AP-42, Table 3.1-2a	1.04	4.56
Sulfur Dioxide ^c 10 grains/100 scf		FERC Limit	4.34	19.00
HAPS °	0.001027 lb/MMBtu	AP-42, Table 3.1-2a	0.16	0.71

^a Emissions based on vendor provided values at ISO conditions and inlet and exhaust losses at 4" of H₂O.

^b Assumes that VOCs are 10% of THC

^c Emissions based on vendor provided heat rate at higher heating value.

2.2.2 New emergency Generators

The new generators will be powered by natural gas fueled, rich burn Generac Model SG300 rated at 300 kW (454 bhp). Engine specifications and stack parameters for the proposed engines are presented in Table 2-4 and emissions are presented in Table 2-5.

2.2.3 Support Equipment

In addition to the compressor engine, some support equipment will be installed at the site. They include:

- One compressor building
- A control building

The locations of the structures are shown on the facility plot plan contained in Attachment D. The compressor building, housing the new turbine, has approximate dimensions of 52 feet wide by 80 feet long by 26 feet high. The approximate dimensions of the control building will be 14 feet wide by 55 feet long by 12 feet high.

2.2.4 New Storage Tank

A new 500 gallon oily water storage tank will be installed at Compressor Station No. 14. Table 2-6 provides the specifications. Emissions were calculated with the U.S EPA's (USEPA) Tank 4.0D program. Details of the calculations can be found in Attachment F. This emission unit is exempt under Rule 62-210.300(3)(b), F.A.C.

2.2.5 Fugitive Emissions

Potential new emissions from Compressor Station No. 14 also include fugitive emissions from the new valves and flanges that will be in gas service. These fugitive emissions have been estimated using USEPA factors for components in gas service at oil and gas facilities (EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission Estimates"). Table 2-7 lists the quantities new components to be added as part of the Phase VIII Expansion Project and an estimate of the fugitive emissions from these sources. These emissions are exempt under Rule 62-210.300(3)(b), F.A.C.

Table 2-4 Proposed Emergency Generator Engines Specifications and Stack Parameters

Parameter	Design				
Compressor Engine	Gen 04/Gen 05				
Туре	Natural Gas, Rich Burn Reciprocating				
Manufacturer	Generac				
Model	SG300				
Unit Size	454 bhp				
Heat Input	4.26 MM Btu/hr				
Fuel Consumption ^a	0.00410 MMscf/h				
Speed	2300 rpm				
Stack Parameters					
Stack Height	20 ft				
Stack Diameter	0.67 ft				
Exhaust Gas Flow	5,300 lb/hr				
Exhaust Gas Flow	2,911 acfm				
Exhaust Temperature	1490 °F				
Exhaust Gas Velocity	138.85 ft/sec				
NOTE: acfm = actual cubic feel per minute bhp = brake horsepower. Btu/hr = British thermal units per ho °F = degrees Fahrenheit. ft = feet. ft/sec = feet per second. Lb/hr = pound per hour. rpm = revolutions per minute. scf/h = standard cubic feet per hou	our.				

^a Based on heating value for natural gas of 1040 British thermal units per standard cubic foot (Btu/scf).

Table 2-5 Emissions from Each Proposed Generator Engine

	Uncont	rolled	·		Controll	ed	
Pollutant	Emission Factor	lb/hrª	TPY ^{a,b}	Emission Factor	lb/hr ^a	TPY ^{a, b}	Reference
Nitrogen Oxides	n Oxides 2.12 g/hp-hr 2.12 0.11 2.0 g/hp-hr		2.00	0.109	NSPS		
Carbon Monoxide	118.3 g/hp-hr	118.41	5.92	4.0 g/hp-hr	4.03	0.40	NSPS
Volatile Organic Compounds ^c	0.29 g/hp-hr	0.29	0.01	0.29 g/hp-hr	0.29	0.01	NSPS
Particulate Matter	0.01941 lb/MMBtu	0.083	<0.01	0.01941 lb/MMBtu	0.083	<0.01	AP-42, Table 3.2-3
Sulfur Dioxide	10 grains/100 scf	0.117	0.01	10 grains/100 scf	0.117	0.01	FERC Limit
Hazardous Air Pollutants	0.0234 lb/MMBtu	0.10	0.01	0.0234 lb/MMBtu	0.10	0.01	AP-42, Table 3.2-3

<sup>a. The manufacturer has not finalized design at this time. Actual values may be lower.
b. Based on 454 bhp, 100 hours of operation per year.
c. assumed VOC 10% of UHC.</sup>

Table 2-6 New Storage Tanks for Compressor Station No. 14

Tank Name	Oily Water Tank			
Type of Tank	Vertical, Cone Roof			
Contents	Drain water from washings; oily water			
Dimensions	4' dia x 6' high			
Capacity	500 Gallons			
Paint Color	White			
Maximum Annual Throughput	500 Gallons			
Pressurized	No			
VOC Emissions (tpy)	<0.001			

Table 2-7 VOC Fugitive Emission Calculations and Summary

Component	Service	Component	Emissions *	NM/NE	Emissions
		Count	Factor (ton/yr)	Fraction	(ton/yr)
Valves	Gas	68	0.0434606	0.05	0.1478
Connector	Gas	0	0.0019316	0.05	0.0000
Flanges	Gas	180	0.0037666	0.05	0.0339
Open-Ended Line	Gas	0	0.0193158	0.05	0.0000
Pumps	Gas	0	0.023179	0.05	0.0000
Other	Gas	0	0.0849895	0.05	0.0000
Valves	Light Oil	0	0.0241448	1.00	0.0000
Connector	Light Oil	0	0.0020282	1.00	0.0000
Flanges	Light Oil	0	0.0010624	1.00	0.0000
Open-Ended Line	Light Oil	0	0.0135211	1.00	0.0000
Pumps	Light Oil	0	0.1255527	1.00	0.0000
Other	Light Oil	0	0.0724343	1.00	0.0000
Valves	Heavy Oil	0	0.0000811	1.00	0.0000
Connector	Heavy Oil	0	0.0000724	1.00	0.0000
Flanges	Heavy Oil	0	0.0000038	1.00	0.0000
Open-Ended Line	Heavy Oil	0	0.0013521	1.00	0.0000
Other	Heavy Oil	0	0.0002994	1.00	0.0000
				TOTAL:	0.1817

^{*&}quot;EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission Estimates

2.2 Emissions Summary

The total changes in emissions resulting from the project are listed on Table 2-8. The calculations used to estimate these emissions are presented in Attachment F.

Table 2-8 Potential Annual Emissions (tpy) Summary

SOURCE ID	DESCRIPTION	NO _x	со	VOCª	SO ₂	РМ	HAPs
	EXIST	ING FACI	LITY				
1401	2000 bhp Recip. Engine	268.1	21.0	7.9	1.8	0.7	4.7
1402	2000 bhp Recip. Engine	268.1	21.0	7.9	1.8	0.7	4.7
1403	2000 bhp Recip. Engine	268.1	21.0	7.9	1.8	0.7	4.7
1404	2,000 bhp recip engine	177.8	15.3	1.8	2.2	0.9	5.2
1405	2,000 bhp Recip. Engine	268.1	21.0	7.9	1.8	0.7	4.7
1406	2,700 bhp Recip. Engine	46.4	48.7	11.5	2.0	4.6	7.6
1407	13,000 bhp Turbine Engine	44.7	54.3	1.8	13.6	3.3	0.5
1408	15,700 bhp Turbine engine	61.8	38.0	6.6	16.2	3.9	0.6
GEN03	637 bhp Recip. Engine	0.7	0.6	0.2	0.0	0.0	0.0
	Other Sources: c	0.0	0.0	3.9	0.0	0.0	0.0
EXISTING ANNUAL POTENTIALTOTALS:		1403.8	240.9	57.4	41.2	15.5	32.7

	PROPOSED MODIFIED FACILITY						
1401	2000 bhp Recip. Engine	268.1	21.0	7.9	1.8	0.7	4.7
1402	2000 bhp Recip. Engine	268.1	21.0	7.9	1.8	0.7	4.7
1403	2000 bhp Recip. Engine	268.1	21.0	7.9	1.8	0.7	4.7
1404	2,000 bhp recip engine	177.8	15.3	1.8	2.2	0.9	5.2
1405	2000 bhp Recip. Engine	268.1	21.0	7.9	1.8	0.7	4.7
1406	2700 bhp Recip. Engine	46.4	48.7	11.5	2.0	4.6	7.6
1407	13,000 bhp Turbine Engine	44.7	54.3	1.8	13.6	3.3	0.5
1408	15,700 bhp Turbine engine	61.8	38.0	6.6	16.2	3.9	0.6
1409	20,500 hp Turbine Engine - New	37.3	37.9	2.2	19.0	4.6	0.7
GEN03	637 bhp Recip. Engine	0.7	0.6	0.2	0.0	0.0	0.0
GEN04	454 bhp Recip. Engine - New	0.1	0.2	0.0	0.0	0.0	0.0
GEN05	454 bhp Recip. Engine - New	0.1	0.2	0.0	0.0	0.0	0.0
	Other Sources: b	0.0	0.0	4.1	0.0	0.0	0.0
PROPOSED ANNUAL POTENTIAL TOTALS:		1441.3	279.2	59.8	60.2	20.1	33.4

NET CHANGES IN POTENTIAL	27.5	20.2	2.4	40	4.0	0.7
EMISSIONS:	37.5	38.3	2.4	19	4.6	0.7

a VOC = Non-methane/non-ethane HC

b Based on 500 hr/yr

c Other Sources Includes ancillary equipment, storage tanks and equipment leaks

d Based on 100 hr/yr

3.0 REGULATORY ANALYSIS

This section presents a review of federal and Florida State air quality regulations, which govern the operations and proposed modifications to be conducted at Compressor Station No. 14.

3.2 Federal Regulations Review

The federal regulatory programs administered by the USEPA have been developed under the authority of the Clean Air Act. The following subsections review the essential elements of the federal regulatory program and the impact they have on the operations and proposed modifications at Compressor Station No. 14.

3.1.1 Classification of Ambient Air Quality

The 1970 Amendments to the CAA gave the USEPA specific authority to establish the minimum level of air quality that all states would be required to achieve. These minimum values or standards were developed in order to protect the public health (primary) and welfare (secondary). The federally promulgated standards and additional state standards are presented on Table 3-1.

Areas of the country that have air quality equal to or better than these standards (i.e., ambient concentrations less than a standard) are designated as "Attainment Areas", while those where monitoring indicates air quality is worse than the standards are known as "Non-attainment Areas." The designation of an area has particular importance for a proposed project as it determines the type of permit review to which the application will be subject.

Major new sources or major modifications to existing major sources located in attainment areas are required to obtain a PSD permit before initiation of construction. Similar sources located in areas designated as non-attainment or that adversely impact such areas undergo more stringent Non-attainment New Source Review (NNSR). In either case, it is necessary, as a first step, to determine the air quality classification of a project site.

All areas of all states are classified as either attainment, non-attainment or unclassifiable for each criteria pollutant. Gadsden County in designated as unclassifiable or attainment for all criteria pollutants. These designations were obtained from 40 CFR 81.310, and 62-204.340 F.A.C.

Table 3-1 National and State Ambient Air Quality Standards (μg/m³)

POLLUTANT	AVERAGING PERIOD	EPA STANDARDS PRIMARY SECONDARY		FLORIDA STANDARDS	
PM ₁₀	24-hour ¹	150	150	150	
	Annual ²	50	50	50	
SO ₂	3-hour ¹		1,300	1,300	
	24-hour ¹	365		260	
	Annual ²	80		60	
CO	1-hour ¹		40,000	40,000	
	8-hour ¹	10,000		10,000	
NO ₂	Annual ²	100	100	100	
O ₃	1-hour ³	235	235	235	

- 1. Not to be exceeded more than once per year.
- 2. Never to be exceeded.
- 3. Not to be exceeded on more than 3 days over 3 years.

Sources: 40 CFR 50; 36FR22384; Chap. 17-2.300.

The designation of Unclassifiable indicates that there is insufficient monitoring data to prove that the area has attained the federal standards; however, the limited data available indicate that the standard has been achieved. Areas with this classification are treated as attainment areas for permitting purposes. Since Gadsden County is considered in attainment for all pollutants, the proposed new emissions are potentially subject to PSD review and not non-attainment review.

3.1.2 PSD Applicability

The 1977 CAA Amendments added Part C: Prevention of Significant Deterioration to the Act. This part required proposed new major stationary sources or existing sources planning a major modification in an area that has attained the National AAQS, to conduct a preconstruction review that includes a detailed analysis of the impacts from the source's emissions.

Federal air quality permitting regulations for attainment areas are codified in the Code of Federal Regulations (CFR), Title 40- Protection of the Environment, Part 52.21 - Prevention of Significant Deterioration (40 CFR 52.21). Major revisions to the rules were finalized on December 31, 2002, and became effective on March 3, 2003. State of Florida requirements are located at 62-212.400 F.A.C.

For the PSD regulations to apply to a given project, the project's potential to emit must constitute a new major stationary source or a major modification to an existing major stationary source. A major stationary source is defined as any of the 28 sources identified in 40 CFR 52.21 that has a potential to emit 100 tons or more per year of any regulated pollutant, or any other stationary source that has the potential to emit 250 tons or more per year of a regulated pollutant. "Potential to emit" is determined on an annual basis after the application of air pollution control equipment, or any other federally enforceable restriction.

"Significant" emission rates are defined as amounts equal to or greater than the emission rates given in Table 3-2.

Table 3-2 Applicability of PSD Significant Emission Rates

Pollutant	Emission Rate Tons/Year
Carbon Monoxide	100
Nitrogen Oxides	40
Sulfur Dioxide	40
Particulate Matter (PM/PM ₁₀)	25/15
Ozone (VOC)	40
Lead	0.6
Fluorides	3
Reduced Sulfur including Hydrogen Sulfide	10
Total Reduced Sulfur including Hydrogen Sulfide	10
Sulfuric Acid Mist	7
Lead	0.6
Mercury	0.1

| Sources:40 CFR 52.21(b)(23); Table 212.400-2 62-212 F.A.C.

Proposed project increases for modified sources are determined for each pollutant and are equal to the actual emissions (average of the actual emissions over any 24 month of the ten years immediately prior to the proposed project) subtracted from the proposed future actual emissions. For new sources the emission increase is equal to the potential to emit (PTE) of the source. Fugitive emissions are only included in the potential to emit if the source is one of the 28 named source categories in 40 CFR 52.21(b)(1) or belongs to a stationary source category that is subject to an NSPS proposed prior to August 7, 1980 or that is subject to an NESHAPS promulgated prior to August 7, 1980.

Netting is only required for each regulated pollutant for which the proposed project increases

(decreases are not considered yet) result in a significant increase in emissions. Netting is performed by identifying both the creditable and contemporaneous increases and the reductions in emissions. The contemporaneous period is defined as the period of time from five years prior to the estimated start of construction through estimated start of operation. Since this project does not result in a significant increase, netting is not required.

To summarize, since Compressor Station No. 14 is not one of the 28 named source categories, but does emit >250 TPY of at least one regulated pollutant, it is considered a major source. However, the increase in emissions resulting from the proposed actions will not exceed the PSD significant rates; therefore, the compressor station is not subject to PSD pre-construction review as shown in Table 3.4.

Table 3-3 PSD Applicability

Regulated Pollutant:	NO _x	со
Significance level as defined in 40 CFR 52.21(b)(23)	40	100
Total Emissions Change from Table 2-8 (tpy)	37.5	38.3
Is PSD review applicable?	No	No

3.1.3 Non-attainment New source Review (NNSR) Applicability

Based on the current non-attainment provisions, all new major stationary sources, or major modifications to such sources, located in a non-attainment area must undergo non-attainment New Source Review, if they have the potential to emit above an NSR significant threshold. For major new sources or major modifications in an attainment or unclassifiable area, the non-attainment provisions apply if the source or modification is located within the area of influence of a non-attainment area. The area of influence is defined as an area, which is outside the boundary of a non-attainment area, but within the locus of all points that are 50 kilometers outside the non-attainment area.

Compressor Station No. 14 is located in an area that is designated as either attainment or not classifiable for all criteria pollutants and is not located in an area of influence outside a non-attainment area. Therefore, this compressor station is not subject to federal non-attainment New Source Review.

3.1.4 Applicability of New source Performance Standards (NSPS)

Standards of Performance for New Sources are published in 40 CFR 60. All Standards apply to all new sources within a given category, regardless of geographic location or ambient air quality at the location.

40 CFR 60 Subpart KKKK

The new turbine to be installed at Compressor Station No. 14 is subject to Subpart KKKK (40 CFR 60.4300), Standards of Performance for Stationary Combustion Turbines, because it will have a maximum heat input at peak load of >10.7 gigajoules/hour (10 MMBtu/hr) based on the higher heating value of the natural gas fuel and because construction will commence after 18 February 2005. This regulation establishes emission limits for NO_X and SO_2 and requires performance testing and monitoring of fuel sulfur.

The NO_x emission limit for Subpart KKKK is based on Table 1 of 40 CFR 60 Subpart KKKK. The limit for new turbines firing natural gas and with a heat input at peak load greater than 50 MMBtu/h but not more than 850 MMBtu/h is 25 ppm at 15% O_2 . SO_2 emissions are limited to 0.060 lb SO_2 /MMBtu heat input. For this turbine the limit will be 9.47 lb/hr.

Table 3-5 summarizes the NSPS applicability for the proposed gas engines. FGT will also be required to comply with all recordkeeping and monitoring requirements of this regulation.

The turbine will meet the NSPS for NO_X of 25 ppmv (i.e., manufacturer's estimation of 15 ppmv), and for SO_2 of 9.47 lb/nr (estimated for this turbine to be 4.34 lb/hr).

40 CFR 60 Subpart JJJJ

The new emergency generator engines are subject to 40 CFR Subpart 60 Subpart JJJJ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. Owners and operators of stationary spark ignition internal combustion engines with maximum engine power greater than or equal to 100 hp must comply with the standards for NOX, CO and VOC established in Table 1 of Subpart JJJJ. The proposed generator engines will comply with the applicable standards. FGT will also be required to comply with all recordkeeping and monitoring requirements of this regulation.

Table 3-6 summarizes the NSPS applicability for the proposed gas-fired emergency generator engines.

Table 3-4 Applicability of New Source Performance Standards Subpart KKKK

NSPS Regulations	Fuel	Pollutant	Heat Input Applicability	Equipment Design Maximum	NSPS Emission Limits	Equipment Emissions
60.4320(a)	Gas	NO _x	>50 MM Btu/hr	158 MM Btu/hr	25 ppm _√	15 ppm _v
60.4330(a)(2)	Gas	SO ₂	>50 MM Btu/hr	158 MM Btu/hr	9.47 lb/hr	4.34 lb/hr

Table 3-5 Applicability of New Source Performance Standards Subpart JJJJ

NESHAP Regulations	Fuel	Pollutant	Equipment Design Maximum	NSPS Emission Limits (g/hp-hr)	Equipment Emissions (G/hp-hr)
60.4230 Table 1	Gas	NO ₂	100 hp and higher	2.0	1.80
60.4230 Table 1	Gas	CO	100 hp and higher	4.0	3.55
60.4230 Table 1	Gas	VOC	100 hp and higher	1.0	0.29

3.1.5 Applicability of National Emission Standards for Hazardous Air Pollutants (NESHAPS)

Section 112 of the Clean Air Act required the USEPA to list categories and subcategories of major sources and area sources of hazardous air pollutants (HAP) and to establish NESHAPS for the listed source categories and subcategories. NESHAPS require all major sources to meet HAP emission standards reflecting the application of the maximum achievable control technology (MACT).

Compressor Station 14 is a major source of HAPS and is, therefore, subject to any applicable NESHAPS. The new gas turbine is potentially subject to the MACT regulation at 40 CFR 63 Subpart YYYY - National Emission Standard for Hazardous Air Pollutants: Stationary Combustion Turbines. Turbines classified as lean pre-mix or diffusion flame gas-fired combustion turbines are exempt from this standard. The new turbines proposed for this project are classified as lean pre-mix turbines and are not subject to the requirements of 40 CFR 63 Subpart YYYY.

Additionally, the new emergency generator engines are subject to 40 CFR 63 Subpart ZZZZ - National Emission Standard for Hazardous Air Pollutants: Reciprocating Internal Combustion

Engines. Engines in compliance with the New Source Performance Standards at 40 CFR Subpart 60 Subpart JJJJ are considered to be in compliance with 40 CFR 63 Subpart ZZZZ. Since the proposed new emergency generator engines will meet the standards of 40 CFR 60 Subpart JJJJ, they will also comply with the requirements of 40 CFR 63 subpart ZZZZ.

The only other NESHAPS that is potentially applicable to this compressor station is 40 CFR 63 Subpart HHH. Compressor Station No. 14 has no affected sources as defined by 40 CFR 63 Subpart HHH and is, therefore, not subject to this subpart.

3.2 Florida state air Quality Regulations

Compressor Station No. 14 is currently operating under Permit No. 0390029-010-AV and is subject to the provisions of that permit. Rule 62, F.A.C., contains the air quality rules and regulations for the State of Florida. The primary federal regulations that affect Compressor Station No. 14 have been incorporated into or are referenced by these rules. The significant state regulations that are applicable to the new emission units are briefly listed below.

3.2.1 Rule 62-210.300 Permits Required

FGT is required to obtain a construction permit prior to modification of an emission unit. This requirement is being met by the submittal of this application.

3.2.2 Rule 62-204.240 Ambient Air Quality Standards

FGT must not violate any of the ambient air quality standards listed under this rule. The proposed new emissions will not violate any air quality standards.

3.2.3 Rule 62-296.320(2) Objectionable Odors

This rule prohibits the discharge of pollutants that will cause or contribute to an objectionable odor. There will be no odors from the proposed changes.

3.2.4 Rule 62-296.320(4)(b)1 General Particulate Emission Limiting Standards

FGT is prohibited from allowing the new compressor engine to discharge into the atmosphere the emissions of air pollutants, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). The new engines will not violate this standard.

4.0 REFERENCES

- U.S. Environmental Protection Agency (USEPA). 1980. PSD Workshop Manual. Research Triangle Park, NC.
- U.S. Environmental Protection Agency (USEPA). 1985. Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017
- U.S. Environmental Protection Agency (USEPA). 2000. Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources (5th Ed.) AP-42. Supplement E, Research Triangle Park, NC.

Attachment A

DEP Forms



Department of Environmental Protection RECE

Division of Air Resource Management

NOV 26 2008

APPLICATION FOR AIR PERMIT - LONG FORM
BUREAU OF AIR REGULATION

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

2. Site Name: Compressor Station No. 14

An initial federally enforceable state air operation permit (FESOP); or

1. Facility Owner/Company Name: Florida Gas Transmission Company, LLC

An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

<u> </u>					
3.	Facility Identification Number: 0390029				
4.	Facility Location				
	Street Address or Other Locator: Rt. 3 Box	3390, 3690 Hosford Highway, Highway 65 S			
	City: Quincy County: Gadsden	Zip Code: 32351-9803			
5.	Relocatable Facility? ☐ Yes ☒ No	6. Existing Title V Permitted Facility? ☐ Yes ☐ No			
Ap	oplication Contact				
1.	Application Contact Name: Charles Wait				
2.	Application Contact Mailing Address				
	Organization/Firm: Florida Gas Transmission Company, LLC				
	Street Address: 5444 Westheimer				
	City: Houston Sta	te: TX Zip Code: 77056			
3.	. Application Contact Telephone Numbers				
	Telephone: (713) 989 - 7459 ext. Fax: (713) 989 - 1135				
4.	Application Contact E-mail Address: charles.wait@SUG.com				
	Application Processing Information (DEP Use)				
1.	Date of Receipt of Application: 26-08 3. PSD Number (if applicable):				
	Project Number(s): 0390089-011-AC 4. Siting Number (if applicable):				

DEP Form No. 62-210.900(1) – Form Effective: 3/16/08

Purpose of Application

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

Application Comment

Florida Gas Transmission Company is proposing to install a new 20,500 bhp gas-fire compressor turbine and two new 454 bhp gas-fired SI ICE 4-stroke rich-burn emergency generator engines.

These proposed modifications are part of FGT's Phase VIII Expansion project, aimed at increasing the supply capacity of FGT's network servicing domestic, commercial, and industrial customers in Florida.

A-2

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
011	Turbine Compressor Engine No. 1409, 20,500 bhp ISO, Natural Gas Fired	ACID	\$0
012	Emergency Generator Engine No. GEN04, 454 bhp, 4-stroke, rich-burn natural gas fired	ACID	\$0
013	Emergency Generator Engine No. GEN05, 454 bhp, 4-stroke, rich-burn natural gas fired	ACID	\$0

Application Processing Fee	
Check one: Attached - Amount: \$	Not Applicable

Owner/Authorized Representative Statement

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

- 1. Owner/Authorized Representative Name: David Shellhouse, Vice President, Southeastern Operations
- 2. Owner/Authorized Representative Mailing Address

Organization/Firm: Florida Gas Transmission Company, LLC

Street Address: 2405 Lucien Way, Suite 200

City: Maitland

State: FL

Zip Code: 32751

3. Owner/Authorized Representative Telephone Numbers...

Telephone: (407) 838 - 7122

ext. Fax: (407)838-7151

- 4. Owner/Authorized Representative E-mail Address: dave.shellhouse@SUG.com
- 5. Owner/Authorized Representative Statement:

I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.

afure on behalf of David Shellhouse Date

Application Responsible Official Certification

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1.	Application Responsible Official Name: NA	
2.	Application Responsible Official Qualification options, as applicable):	Check one or more of the following
	For a corporation, the president, secretary, treas charge of a principal business function, or any decision-making functions for the corporation, or person if the representative is responsible for the manufacturing, production, or operating facilities Chapter 62-213, F.A.C.	ther person who performs similar policy or or a duly authorized representative of such e overall operation of one or more
	For a partnership or sole proprietorship, a gener	al partner or the proprietor, respectively.
	For a municipality, county, state, federal, or oth officer or ranking elected official.	er public agency, either a principal executive
	The designated representative at an Acid Rain s	ource, CAIR source, or Hg Budget source.
3.	Application Responsible Official Mailing Addr Organization/Firm:	ess
	Street Address:	
	City: State:	Zip Code:
4.	Application Responsible Official Telephone Nu Telephone: () - ext. Fax: ()	
5.	Application Responsible Official E-mail Addre	88:
6.	Application Responsible Official Certification:	
	I, the undersigned, am a responsible official of the application. I hereby certify, based on information the statements made in this application are true, acknowledge, any estimates of emissions reported in t techniques for calculating emissions. The air pollule equipment described in this application will be open applicable standards for control of air pollutant emissions and rules of the Department of Environment other applicable requirements identified in this application that a permit, if granted by the department from the department, and I will promptly notify the facility or any permitted emissions unit. Finally, I care in compliance with all applicable requirements in compliance plan(s) submitted with this application	and belief formed after reasonable inquiry, that curate and complete and that, to the best of my his application are based upon reasonable ant emissions units and air pollution control atted and maintained so as to comply with all issions found in the statutes of the State of tal Protection and revisions thereof and all lication to which the Title V source is subject. I cent, cannot be transferred without authorization department upon sale or legal transfer of the ertify that the facility and each emissions unit to which they are subject, except as identified
	Signature	Date

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Professional Engineer Certification

	_
Professional Engineer Name: Kevin J. McGlynn	
Registration Number: 50908	
Professional Engineer Mailing Address.	
Organization/Firm: Trow Engineering consultants, Inc.	
Street Address: 1200 Metropolitan Blvd. Ste. 200	
City: Tallahassee State: FL Zip Code: 32308	_
Professional Engineer Telephone Numbers.	
Telephone: (850) 385 - 5441 ext. 314 Fax: (850) 385 - 5523	
Professional Engineer E-mail Address: Kevin.mcglynn@trow.com	
Professional Engineer Statement:	
I, the undersigned, hereby certify, except as particularly noted herein*, that:	
(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and	
(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.	
(3) If the purpose of this application is to obtain a Title V air operation permit (check here , if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.	
(4) If the purpose of this application is to obtain an air construction permit (check here \square , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here \square , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.	
(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit. Vov. 18, 2008 Date (seal) 50308	
	Professional Engineer Mailing Address. Organization/Firm: Trow Engineering consultants, Inc. Street Address: 1200 Metropolitan Blvd. Ste. 200 City: Tallahassee State: FL Zip Code: 32308 Professional Engineer Telephone Numbers. Telephone: (850) 385 - 5441 ext. 314 Fax: (850) 385 - 5523 Professional Engineer E-mail Address: Kevin.mcglynn@trow.com Professional Engineer Statement: I. the undersigned, hereby certific except as particularly noted herein*, that: (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and (2) To the best of my knowledge, any emission estimates reported or reliced 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, based solely upon the materials, information and calculations submitted with this application. (3) If the purpose of this application is to obtain a Title V air operation permit (check here

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II. FACILITY INFORMATION A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates Zone 16 East (km) 719.97 North (km) 3377.39		2. Facility Latitude/Longitude Latitude (DD/MM/SS) 30/30/38 Longitude (DD/MM/SS) 84/42/28		
3. Governmental Facility Code:	4. Facility Status Code:	5. Facility Major Group SIC Code:	6. Facility SIC(s):	
0	A A	49	4922	
•		natural gas pipeline comp compressor turbines.	pressor station with six	

Facility Contact

1.	Facility Contact Nar	ne: Dustin B	radley				
2.	Facility Contact Mai	iling Address	:				
	Organization/Firm:	Florida	Gas T	ransmiss	ion Co	mpany	
	Street Address:	3690 H	3690 Hosford Highway				
	City:	Quincy		State:	FL	Zip Code:	32351-9803
3.	Facility Contact Telephone Numbers:						
	Telephone: (850)	350 - 5303	ext.	Fax:	(850) 350 - 5301	
4.	Facility Contact E-m	nail Address:	Dustin	.Bradley	@SUC	G.com	

Facility Primary Responsible Official

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

1.	Facility Primary Responsible NA	Official Name:		
2.	Facility Primary Responsible Organization/Firm:	Official Mailing Address		
	Street Address:			
	City:	State:	Zip Code:	
3.	Facility Primary Responsible	Official Telephone Number	ers	
	Telephone: () -	ext. Fax: ()	-	
4.	Facility Primary Responsible	Official E-mail Address:		

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FACILITY INFORMATION

Facility Regulatory Classifications

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

1.	Small Business Stationary Source	☐ Unknown
2.	Synthetic Non-Title V Source	
3.	☐ Title V Source	
4.	Major Source of Air Pollutants, Other than F	lazardous Air Pollutants (HAPs)
5.	Synthetic Minor Source of Air Pollutants, O	her than HAPs
6.	Major Source of Hazardous Air Pollutants (I	HAPs)
7.	Synthetic Minor Source of HAPs	
8.	One or More Emissions Units Subject to NS	PS (40 CFR Part 60)
9.	One or More Emissions Units Subject to Em	ission Guidelines (40 CFR Part 60)
10.	One or More Emissions Units Subject to NE	SHAP (40 CFR Part 61 or Part 63)
11.	Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))
12.	Facility Regulatory Classifications Comment:	
]	New gas-fired compressor turbine (No. 1409) is subje	ct to (NSPS) 40 CFR Part 60, Subpart KKKK
	New gas-fired reciprocating internal combustion emer (NSPS) 40 CFR 60 Subpart JJJJ and (NESHAP) 40 C	

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FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
NOX	A	N
СО	A	N
VOC	В	N
SO2	В	N
PM	В	N
HAPs	A	N

FACILITY INFORMATION

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant	2. Facility-	3. Emissions	4. Hourly	5. Annual	6. Basis for
Subject to	Wide Cap	Unit ID's	Cap	Cap	Emissions
Emissions	[Y or N]?	Under Cap	(lb/hr)	(ton/yr)	Cap
Cap	(all units)	(if not all units)			
NA					
7. Facility-W	ide or Multi-Unit	Emissions Cap Cor	nment:		

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: <u>Attach. D</u> Previously Submitted, Date:
2.	Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Attach. B Previously Submitted, Date:
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID <u>Attach. C</u> Previously Submitted, Date:
Ad	Iditional Requirements for Air Construction Permit Applications
1.	Area Map Showing Facility Location: Attached, Document ID: <u>Narr.Fig. 1-1</u> Not Applicable (existing permitted facility)
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): Attached, Document ID: Narr. Sect 2.0
3.	Rule Applicability Analysis: Attached, Document ID: Narr. Sect 3.0
4.	List of Exempt Emissions Units: Attached, Document ID: <u>Attach. J</u> Not Applicable (no exempt units at facility)
5.	Fugitive Emissions Identification: Attached, Document ID: <i>Narr. Sect 2.2.5</i> Not Applicable
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.): Attached, Document ID: Not Applicable
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.): Attached, Document ID: Not Applicable
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): Attached, Document ID: Not Applicable
9.	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): Attached, Document ID: Not Applicable
10	. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

1.	List of Exempt Emissions Units:
	Attached, Document ID: NA Not Applicable (no exempt units at facility)
Ad	Iditional Requirements for Title V Air Operation Permit Applications
1.	List of Insignificant Activities: (Required for initial/renewal applications only) Attached, Document ID: NA Not Applicable (revision application)
2.	Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought) Attached, Document ID: NA
	Not Applicable (revision application with no change in applicable requirements)
3.	Compliance Report and Plan: (Required for all initial/revision/renewal applications) Attached, Document ID: NA
	Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
4.	List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only) Attached, Document ID: NA
	Equipment/Activities Onsite but Not Required to be Individually Listed
	☐ Not Applicable
5.	Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only) Attached, Document ID: NA Not Applicable
6.	Requested Changes to Current Title V Air Operation Permit: Attached, Document ID: NA Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1. Acid Rain Program Forms: NA				
Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):				
Attached, Document ID: Previously Submitted, Date:				
Not Applicable (not an Acid Rain source)				
Phase II NO _X Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):				
Attached, Document ID: Previously Submitted, Date:				
Not Applicable				
New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):				
Attached, Document ID: Previously Submitted, Date:				
Not Applicable				
2. CAIR Part (DEP Form No. 62-210.900(1)(b)): NA				
Attached, Document ID: Previously Submitted, Date:				
Not Applicable (not a CAIR source)				
3. Hg Budget Part (DEP Form No. 62-210.900(1)(c)): NA				
Attached, Document ID: Previously Submitted, Date:				
Not Applicable (not a Hg Budget unit)				
Additional Requirements Comment				
Attachment B provides a Process Flow Diagram				
Attachment C presents Precautions to Prevent Emissions of Unconfined Particulate Matter				
Attachment D contains a plot plan. Attachment E has vendor supplied information.				
Attachment F has supporting calculations.				
Attachment G contains a fuel analysis				
Attachment H contains a list of Exempt Emission Units				
·				

Section [1] **of** [3]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

or renewal Title V	Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.) NA				
The emissions emissions uni	The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit				
	s unit addressed in this E	missions Unit Informat	ion Section is an		
unregulated e	missions unit.				
Emissions Unit Desc	ription and Status				
1. Type of Emissions	Unit Addressed in this	Section: (Check one)			
single process pollutants and	s Unit Information Secti or production unit, or ac which has at least one do	tivity, which produces of efinable emission point	one or more air (stack or vent).		
group of proce	es Unit Information Sections or production units and (stack or vent) but may	nd activities which has a	it least one definable		
	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.				
2. Description of					
•	20,500 bhp (ISO) natural gas fired turbine compressor unit, FGT Engine No. 1409				
3. Emissions Unit Id	entification Number: 01	1			
4. Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit		
Status Code:	Construction Date:	Date:	Major Group SIC Code:		
C	NA	NA	49		
8. Federal Program A	Applicability: (Check all	that apply)			
Acid Rain Un	Acid Rain Unit				
CAIR Unit					
Hg Budget Ur	Hg Budget Unit				
9. Package Unit: Manufacturer: So	9. Package Unit: Manufacturer: Solar Model Number: Titan 130 - 20502S				
10. Generator Namep	late Rating: MW				
11. Emissions Unit Comment:					
Fuel will be exclusively natural gas from the FGT's gas pipeline. The proposed engine will incorporate dry, low NO _X combustion technology.					

Section [1] **of** [3]

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:				
The proposed engine will incorporate dry, low NO _X combustion technology.				
2. Control Device or Method Code: 99				
Emissions Unit Control Equipment/Method: Control of				
1. Control Equipment/Method Description:				
2. Control Device or Method Code:				
Emissions Unit Control Equipment/Method: Control of				
1. Control Equipment/Method Description:				
2. Control Device or Method Code:				
Emissions Unit Control Equipment/Method: Control of				
1. Control Equipment/Method Description:				
2. Control Device or Method Code:				

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

	52 weeks/year	8760 hours/year		
5.	Requested Maximum Operating Schedule: 24 hours/day	7 days/week		
	tons/day			
4.	Maximum Incineration Rate: pounds/hr NA			
3.	Maximum Heat Input Rate: 157.89 million Btu/hr HHV			
2.	Maximum Production Rate: NA			
1.	Maximum Process or Throughput Rate: NA			

6. Operating Capacity/Schedule Comment:

Heat input is 151.82 MM Btu/hr Higher heating value (HHV). This is based on a vendor provided bhp of 19,465 bhp, a specific heat rate of 7,326 Btu/hp-hr, a lower heating value (LHV) of 939.2 Btu/scf and a higher heating value (HHV) of 1040 Btu/scf.

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C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification of Point on Flow Diagram: 1409	Plot Plan or	2. Emission Point 1	Type Code:
3.	Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			for VE Tracking:
	NA			
4.	ID Numbers or Descriptio	ns of Emission Ur	nits with this Emission	Point in Common:
	•			
	NA			
5.	Discharge Type Code:	6. Stack Height	:	7. Exit Diameter:
	V	55 Feet		8.7 feet (De)
8.	Exit Temperature:		metric Flow Rate:	10. Water Vapor:
	944 °F	232,782 acfn		NA %
11.	11. Maximum Dry Standard Flow Rate: NA dscfm		12. Nonstack Emission Point Height: NA feet	
13.	Emission Point UTM Coo		14. Emission Point Latitude/Longitude	
	Zone 16 East (km)	719.97	Latitude (DD/MM/SS)	
	North (km) 3377.39		Longitude (DD/MM/SS)	
15.	Emission Point Comment:			
	Stack has rectangular cros	s section with dim	nensions of 7.5 x 8 fee	t.

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type):

Natural gas fired turbine engine driving a natural gas compressor, operating full time.					
2. Source Classification Cod	le (SCC):	3. SCC Units			
2-02-002-01	_	million cubic feet burned			
4. Maximum Hourly Rate: 0.1518	5. Maximum	Annual Rate: 9.92	6. Estimated Annual Activity Factor: NA		
7. Maximum % Sulfur: NA	8. Maximum	% Ash: JA	9. Million Btu per SCC Unit: 1040		
10. Segment Comment:	. I				
None					
Segment Description and Ra	ate: Segment _	of_			
1. Segment Description (Pro	cess/Fuel Type):				
2. Source Classification Cod	e (SCC):	3. SCC Units	3.		
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:		
10. Segment Comment:					

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	Secondary Control Device Code	4. Pollutant Regulatory Code
voc			EL
SO2			EL
PM25			NS
NOX 5	99		EL
СО			EL
PM10			NS
HAPs			NS

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: NOX	2. Total Percent Efficiency of Control:	
3. Potential Emissions: 8.52 lb/hour 37.31	4. Synthetically Limited? tons/year Yes No	
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA	
6. Emission Factor: 8.52 lb/hr Reference: Vendor data	7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitoring Period: 5 years 10 years	
10. Calculation of Emissions: (8.52 lb/hr)(1 ton/2000 lb)(8760hr/1 yr) = 37.31 tons/year		
11. Potential, Fugitive, and Actual Emissions Comment:		
Vendor's data based on ISO conditions with inle	et and exhaust losses of 4" of H2O.	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

to a numerical emissions imitation.					
Allowable Emissions 1 of 1					
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units: 15 ppmvd @ 15% O2	4.	Equivalent Allowable Emissions: 8.52 lb/hour 37.31 tons/year		
5.	Method of Compliance: Initial performance test				
6.	Allowable Emissions Comment (Description	of	Operating Method):		
	40 CFR 60.4320(a) limits NOX emissions to 25 ppmv.				
A	llowable Emissions Allowable Emissions	of_			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:				
	6. Allowable Emissions Comment (Description of Operating Method):				
Al	lowable Emissions Allowable Emissions c	of	_		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:				
6.	Allowable Emissions Comment (Description	of C	perating Method):		

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Totential, Estimated Lugitive, and Dasenne o	Tiofected Actual Emissions	
1. Pollutant Emitted:	2. Total Percent Efficiency of Control:	
СО		
3. Potential Emissions:	4. Synthetically Limited?	
(tons/year Yes No	
5. Range of Estimated Fugitive Emissions	(as applicable): NA	
to tons/year		
6. Emission Factor: 8.64 lb/hr	7. Emissions	
	Method Code:	
Reference: Vendor data	5	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:	
NA tons/year	From: To:	
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:	
NA tons/year	5 years 10 years	
10. Calculation of Emissions:		
(8.64 lb/hr)(1 ton/2000 lb)(8760hr/1 yr) = 37	7.84 tons/year	
11. Potential, Fugitive, and Actual Emissions Comment:		
Vendor's data based on ISO conditions with inlet and exhaust losses of 4" of H2O.		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions NA of

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions: NA			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5.	Method of Compliance:				
	Allowable Emissions Comment (Description				
	lowable Emissions Allowable Emissions				
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5.	Method of Compliance:				
6.	6. Allowable Emissions Comment (Description of Operating Method):				
Al	lowable Emissions Allowable Emissions	of			
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5.	Method of Compliance:				
6.	6. Allowable Emissions Comment (Description of Operating Method):				

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

rotential, Estimated rugitive, and Baseline & Projected Actual Emissions					
Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:				
3. Potential Emissions: 0.495 lb/hour 2.17	4. Synthetically Limited?				
	tons/year Yes No				
to tons/year	(as applicable): NA				
6. Emission Factor: 0.495 lb/hr	7. Emissions				
Reference: Vendor data	Method Code: 5				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:				
NA tons/year	From: To:				
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:				
NA tons/year	5 years 10 years				
10. Calculation of Emissions:					
(0.495 lb/hr)(1 ton/2000 lb)(8760 hr/1 yr) = 2.17 tons/year					
11. Potential, Fugitive, and Actual Emissions Comment:					
Vendor's data based on ISO conditions with inlet and exhaust losses of 4" of H2O.					

POLLUTANT DETAIL INFORMATION Page [3] of [6]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable	Emissions	Allowable	Emissions	NA of

$\overline{}$	And whole Emissions IV				
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
		lb/hour tons/year			
5.	Method of Compliance:				
	Allowable Emissions Comment (Description				
_ <u>A</u>]	llowable Emissions Allowable Emissions	of			
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
		lb/hour tons/year			
	5. Method of Compliance:6. Allowable Emissions Comment (Description of Operating Method):				
Al	lowable Emissions Allowable Emissions	of			
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5.	Method of Compliance:				
6.	. Allowable Emissions Comment (Description of Operating Method):				

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

rotential, Estimated rugitive, and basenne & Projected Actual Emissions				
1. Pollutant Emitted: SO2	2. Total Percent Efficie	ency of Control:		
3. Potential Emissions: 4.34 lb/hour 19.00	1 —	netically Limited? 'es \(\sime\) No		
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA			
6. Emission Factor: 10 grain/100 scf Reference: FERC limit		7. Emissions Method Code: 2		
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month From:	Period:		
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitori	ng Period: 10 years		
10. Calculation of Emissions: (10 gr S/100 scf)(151,800 scf/hr)(1 lb/7000 gr) = 2.17 lb S/hr (2.17 lb S/hr)(2 lb SO2/lb S) = 4.34 lb SO2/hr (4.34 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb) = 19.00 ton/yr				
11. Potential, Fugitive, and Actual Emissions Comment:				
Vendor's data based on ISO conditions with inlet and exhaust losses of 4" of H2O.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions	Allowable Emissions	1	of	1
---------------------	---------------------	---	----	---

1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA		
	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: 4.34 lb/hour 19.00 tons/year		
5.	Method of Compliance: Initial performance test			
6.	Allowable Emissions Comment (Description	of Operating Method):		
	40 CFR 60.4330(a)(2) limitsSO2 emissions	to 9.06lb/hr.		
	lowable Emissions Allowable Emissions	of		
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:			
0.	Allowable Emissions Comment (Description	of Operating Method):		
A 11	owahla Emissiona Allanda I. D			
	owable Emissions Allowable Emissions	of		
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
	M.I. 1. CO.	lb/hour tons/year		
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of Operating Method):		

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: PM	2. Total Percent Efficie	ency of Control:		
3. Potential Emissions: 1.04 lb/hour 4.56	· · · · · · · · · · · · · · · · · · ·	netically Limited?		
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA			
6. Emission Factor: 0.0066 lb/MM Btu Reference: Table 3.1-2a, AP-42 4/00		7. Emissions Method Code: 3		
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month From:	Period: o:		
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitori 5 years	ng Period: 10 years		
10. Calculation of Emissions: (0.0066 lb/MM Btu)(157.89 MM Btu/hr) = 1.042 lb/hr (1.042 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 4.56 ton/y				
11. Potential, Fugitive, and Actual Emissions Comment: Based on vendor's heat input data at ISO conditions with inlet and exhaust losses of 4" of H2O and fuel higher heat value of 1040 Btu/scf				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

to a numerical climssions initiation	1				
Allowable Emissions NA of					
1. Basis for Allowable Emissions Co	ode: 2.	Future Effective Da Emissions: NA	te of Allowable		
3. Allowable Emissions and Units:	4.	Equivalent Allowab lb/hour	le Emissions: tons/year		
5. Method of Compliance:					
6. Allowable Emissions Comment (· 	Operating Method):			
Allowable Emissions Allowable Em	issions oi _	 .			
Basis for Allowable Emissions Co	ode: 2.	Future Effective Dar Emissions:	te of Allowable		
3. Allowable Emissions and Units:	4.	Equivalent Allowab	le Emissions:		
		lb/hour	tons/year		
5. Method of Compliance:					
6. Allowable Emissions Comment (Operating Method):			
Allowable Emissions Allowable Em	issions ot _				
Basis for Allowable Emissions Co	ode: 2.	Future Effective Date Emissions:	te of Allowable		
3. Allowable Emissions and Units:	4.	Equivalent Allowab lb/hour	le Emissions: tons/year		
5. Method of Compliance:					
6. Allowable Emissions Comment (Description of Operating Method):					

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Totelliag Estimated Fugitive, and Dasenie & Frojected Actual Emissions				
Pollutant Emitted: HAPS	2. Total Percent Efficie	ency of Control:		
3. Potential Emissions:	4. Syntl	netically Limited?		
	1 —	es No		
5. Range of Estimated Fugitive Emissions	(as applicable): NA			
to tons/year				
6. Emission Factor: 0.001027 lb/MM Btu		7. Emissions		
		Method Code:		
Reference: AP-42, Table 3.1-2a		3		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
NA tons/year	From:	o:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:		
NA tons/year	5 years] 10 years		
10. Calculation of Emissions:				
(0.001027 lb/MM Btu)(157.89 MM Btu/hr) = 0.162 lb/hr (0.162 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 0.71 ton/y				
11. Potential, Fugitive, and Actual Emissions Co	omment:			
Based on vendor's heat input data at ISO conditions with inlet and exhaust losses of 4" of H2O and fuel higher heat value of 1040 Btu/scf				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions NA of

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions: NA	
_		↓ _ -		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:	
			lb/hour tons/year	
5.	Method of Compliance:			
	Allowable Emissions Comment (Description		Operating Method):	
$\mathbf{A}\mathbf{I}$	lowable Emissions Allowable Emissions	of_	_	
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:	
			lb/hour tons/year	
	Method of Compliance: Allowable Emissions Comment (Description	of (Operating Method):	
Al	lowable Emissions Allowable Emissions	of_		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year	
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of (Operating Method):	

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G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
l	VE10	Rule	Other
3	Allowable Opacity:	<u> </u>	
٦.		10 10	•
		ceptional Conditions:	%
<u> </u>	Maximum Period of Excess Opacity Allowe	ed:	min/hour
	3. Method of Compliance:		
1	Annual testing with Method 9		
	4. Visible Emissions Comment:		
Ī	Subject to 62-296-320(4)(b) General Visible	Emissions Standards	
	and the second s	Elinssions Standards.	
Vi	sible Emissions Limitation. Visible Emissis	and Limitation of	
	sible Emissions Limitation: Visible Emission		
I.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
		Rule	Other
3.	Allowable Opacity:	·	
	••	continual Conditions	0/
	Maximum Period of Excess Opacity Allowe	ceptional Conditions:	%
		<u>a:</u>	min/hour
4.	Method of Compliance:		
5.	Visible Emissions Comment:		
			İ

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H. CONTINUOUS MONITOR INFORMATION

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

<u>Continuous Monitoring System:</u> Continuous Monitor <u>NA</u> of ___ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: Rule Other 4. Monitor Information... Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment: <u>Continuous Monitoring System:</u> Continuous Monitor ___ of ___ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: Rule Other 4. Monitor Information... Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment:

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I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five
	years and would not be altered as a result of the revision being sought)
	Attached, Document ID: <u>Attach. B</u> Previously Submitted, Date
2.	Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Attach. G Previously Submitted, Date
3.	Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: NA Previously Submitted, Date
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID:
<u></u>	
5.	Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date Not Applicable
6.	Compliance Demonstration Reports/Records:
ļ	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date:
	Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	Not Applicable
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7.	Other Information Required by Rule or Statute:
	Attached, Document ID: Not Applicable

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I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7),				
F.A.C.; 40 CFR 63.43(d) and (e)):				
Attached, Document ID: <u>Narr. Sec. 3.0</u> Not Applicable				
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-				
212.500(4)(f), F.A.C.):				
Attached, Document ID: Not Applicable				
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)				
Attached, Document ID: <u>See Note Below</u> Not Applicable				
Additional Requirements for Title V Air Operation Permit Applications				
1. Identification of Applicable Requirements:				
Attached, Document ID: NA				
2. Compliance Assurance Monitoring:				
Attached, Document ID: Not Applicable				
3. Alternative Methods of Operation:				
Attached, Document ID: Not Applicable				
4. Alternative Modes of Operation (Emissions Trading):				
Attached, Document ID: Not Applicable				
Additional Requirements Comment				
Supplemental information is provided in the narrative description accompanying these forms.				
Specifications for the engine silencers/stacks have not been completed at this time. Final				
specifications will comply with USEPA and FDEP regulatory requirements.				

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A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1.	Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.) NA						
	The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.						
	The emissions unregulated en	unit addressed in this E	Emissions Unit Informat	ion Section is an			
							
	nissions Unit Descr		Cardiana (Class)				
1.		Unit Addressed in this	` ,				
	single process	s Unit Information Section or production unit, or action which has at least one defeated.	ctivity, which produces of	one or more air			
	group of proce	s Unit Information Sections or production units ar (stack or vent) but may	nd activities which has a	t least one definable			
		s Unit Information Section production units and a	,	e emissions unit, one or fugitive emissions only.			
	1. Description of	Emissions Unit Address	sed in this Section:				
em		s fired, spark ignition, 4 engine, FGT Engine No.		nal combustion			
3.	Emissions Unit Ide	entification Number: 01	2				
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit			
	Status Code:	Construction Date:	Date:	Major Group SIC Code:			
	C	NA	NA	49			
8.	Federal Program A	pplicability: (Check all	that apply)				
	Acid Rain Uni	t					
	CAIR Unit						
	☐ Hg Budget Un	it					
9.	Package Unit:						
	Manufacturer: Generac Model Number: SG300						
10. Generator Nameplate Rating: 0.3 MW							
11.	11. Emissions Unit Comment:						
Fuel will be exclusively natural gas from the FGT's gas pipeline.							

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Emissions Unit Control Equipment/Method: Control NA of		
1. Control Equipment/Method Description:		
		:
, and	a de la companya de l	
	9 c	
2. Control Device or Method Code:		
Emissions Unit Control Equipment/Method: Control of		
1. Control Equipment/Method Description:	, and	
•		
· ',	The state of the s	
2. Control Device or Method Code:		
Emissions Unit Control Equipment/Method: Control of	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Control Equipment/Method Description:		
$I_{t_0}^{+}$	10 (10 m)	
2. Control Device or Method Code:		
Emissions Unit Control Equipment/Method: Control of		
1. Control Equipment/Method Description:		
	<u>* * * </u>	:
2. Control Device or Method Code:		

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

		
Maximum Process or Th	hroughput Rate: NA	
2. Maximum Production R	late: NA	
3. Maximum Heat Input R	ate: 4.26 million Btu/hr	
4. Maximum Incineration	Rate: pounds/hr NA	
	tons/day	
5. Requested Maximum O	perating Schedule:	
	hours/day	days/week
	weeks/year	100 hours/year
	edule Comment: A defined emergency generator usa OCFR 60.4243(d)). This does not i	• • •
Schedule is based on USEP.	A defined emergency generator usa	• • •
Schedule is based on USEP.	A defined emergency generator usa	• • •
Schedule is based on USEP.	A defined emergency generator usa	• • •
Schedule is based on USEP.	A defined emergency generator usa	• • •
Schedule is based on USEP.	A defined emergency generator usa	• • •
Schedule is based on USEP.	A defined emergency generator usa	• • •
Schedule is based on USEP.	A defined emergency generator usa	• • •
Schedule is based on USEP.	A defined emergency generator usa	• • •
chedule is based on USEP.	A defined emergency generator usa	• • •

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of [3]

C. EMISSION POINT (STACK/VENT) INFORMATION (Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Flow Diagram: GEN05		2. Emission Point	ì
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:
NA			
4. ID Numbers or Description	ons of Emission U	nits with this Emission	n Point in Common:
NA			
5. Discharge Type Code: V	6. Stack Height 7.0 Feet	t:	7. Exit Diameter: 0.33 feet
8. Exit Temperature: 1490 °F	4335 acfm	metric Flow Rate:	10. Water Vapor: NA %
11. Maximum Dry Standard F NA dscfm		12. Nonstack Emissi NA feet	on Point Height:
13. Emission Point UTM Coo Zone: 16 East (km):	ordinates 719.97	14. Emission Point I Latitude (DD/M)	Latitude/Longitude
North (km)		Longitude (DD/MM/SS)	
15. Emission Point Comment:			<u> </u>

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type):

[3]

	Natural gas fired 4-stroke	e, rich-burn engin	e driving an em	ergei	ncy generator.
2.	Source Classification Cod	e (SCC):	3. SCC Units	·:	
	2-02-002-53		n	nillio	n cubic feet burned
4.	Maximum Hourly Rate: 0.0041	5. Maximum 0.	Annual Rate: 41	6.	Estimated Annual Activity Factor: NA
7.	Maximum % Sulfur: NA	8. Maximum N	% Ash: A	9.	Million Btu per SCC Unit: 1040
10.	Segment Comment:				
	Annual usage based on 10	0 hours per year	operation.		
	gment Description and Ra		of		
	Segment Description (Prod				
2.	Source Classification Code		3. SCC Units:	:	
4.	Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maximum 9	∕₀ Ash:	9.	Million Btu per SCC Unit:
10.	Segment Comment:			1	

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC			EL
SO ₂			NS
PM			NS
NO _X			EL
СО			EL
PM ₁₀			NS
HAPs			NS

POLLUTANT DETAIL INFORMATION
Page [1] of [6]

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: NOX	2. Total Percent Efficients 5.7	ency of Control:		
3. Potential Emissions: 2.00 lb/hour 1.00		netically Limited? 'es No		
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA			
6. Emission Factor: 2.00 g/hp-hr at 5.7% control Reference: Vendor data	rol	7. Emissions Method Code: 5		
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month From:			
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitori 5 years	ng Period: 10 years		
10. Calculation of Emissions: (2.00 g/hp-hr)(454 bhp)(1lb/454 g) = 2.00 lb (2.00 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.10				
11. Potential, Fugitive, and Actual Emissions Comment: Calculations based on emergency generator usage of 100 hours per year and minimum control efficiency.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA			
3.	Allowable Emissions and Units: 2.0 g/hp-hr.	4. Equivalent Allowable Emissions: 2.00 lb/hour 0.10 tons/year			
5.	Method of Compliance: Monitor hours of operation				
6.	 Allowable Emissions Comment (Description of Operating Method): 60.4230 Table 1 limits NOX emissions to 2 g/hp-hr. 				
<u>Al</u>	lowable Emissions Allowable Emissions	of			
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5.6.	5. Method of Compliance:6. Allowable Emissions Comment (Description of Operating Method):				
All	owable Emissions Allowable Emissions	of			
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5.	Method of Compliance:				
6.	Allowable Emissions Comment (Description	of Operating Method):			

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted:	2. Total Percent Efficie	ency of Control:		
СО	96.6	_		
3. Potential Emissions:	· · · · · · · · · · · · · · · · · · ·	netically Limited?		
	tons/year X	'es		
	(as applicable): NA			
to tons/year	1			
6. Emission Factor: 4.0 g/hp-hr at 96.6% cont	rol	7. Emissions Method Code:		
Reference: Vendor data		5		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
NA tons/year	From:	o:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:		
NA tons/year	5 years] 10 years		
10. Calculation of Emissions:				
(4.00 g/hp-hr)(454 bhp)(1lb/454 g) = 4.03 lb (4.03 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.20				
11. Potential, Fugitive, and Actual Emissions Comment:				
11. Potential, Fugitive, and Actual Emissions Comment: Calculations based on emergency generator usage of 100 hours per year and minimum control efficiency.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

$\underline{\mathbf{A}}$	llowable Emissions Allowable Emissions 1	of	<u>1</u>		
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units: 4.0 g/hp-hr.	4.	Equivalent Allowable Emissions: 4.0 lb/hour 0.20 tons/year		
5.	Method of Compliance: Monitor hours of operation				
6.	Allowable Emissions Comment (Description	of	Operating Method):		
	60.4230 Table Himits CO emissions to 4 g/hp-hr.				
<u>Al</u>	lowable Emissions Allowable Emissions	of_			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
	Method of Compliance:				
6.	Allowable Emissions Comment (Description	of (Operating Method):		
All	owable Emissions Allowable Emissions	of_			
	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:				
6.	Allowable Emissions Comment (Description	of C	Operating Method):		

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.29 lb/hour 0.0	4. Synthetically Limited? 1 tons/year Yes No
5. Range of Estimated Fugitive Emissions (as applicable): NA to tons/year	
6. Emission Factor: 2.91 g/hp-hr THC Reference: Vendor data	7. Emissions Method Code: 5
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitoring Period: 5 years 10 years
10. Calculation of Emissions: Assume VOC 10% of THC = 0.29 g/hp-hr (0.29 g/hp-hr)(454 bhp)(1lb/453.6 g) = 0.29 lb/hr (0.29 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.01 ton/yr	
11. Potential, Fugitive, and Actual Emissions Comment:	
Calculations based on emergency generator usage of 100 hours per year and minimum control efficiency.	

POLLUTANT DETAIL INFORMATION Page [3] of [6]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions	Allowable Emissions	1	of	1

	Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units: 0.29 g/hp-hr.	4. Equivalent Allowable Emissions: 0.29 lb/hour 0.01 tons/year		
5.	Method of Compliance: Monitor hours of operation			
6.	Allowable Emissions Comment (Description	of	Operating Method):	
	60.4230 Table 1 limits VOC emissions to 1 g	g/hp-	hr.	
Al	lowable Emissions Allowable Emissions	of_		
	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year	
5.	Method of Compliance:	•		
6.	Allowable Emissions Comment (Description	of	Operating Method):	
All	lowable Emissions Allowable Emissions o	of_		
	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year	
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of C	Operating Method):	

POLLUTANT DETAIL INFORMATION
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS (Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Totelitian Estimated 1 agitive, and Dasenne o	e Trojected Actual Emis	310113		
1. Pollutant Emitted: SO2	2. Total Percent Efficie	ency of Control:		
3. Potential Emissions:	4. Syntl	netically Limited?		
	· · · · · · · · · · · · · · · · · · ·	_ _		
	6 tons/year 🔀 Y	es No		
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA			
6. Emission Factor: 10 grains / 100 scf		7. Emissions		
		Method Code:		
Reference: FERC limit		2		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
NA tons/year	From:	Co:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:		
NA tons/year		~~~		
	5 years	10 years		
10. Calculation of Emissions:				
10. Calculation of Emissions: (10 gr S/100 scf)(4100 scf/hr)(1 lb/7000 gr) = 0.059 lb S/hr (0.059 lb S/hr)(2 lb SO2/lb S) = 0.117 lb SO2/hr (0.117 lb SO2/hr)(100 hr/yr)(1 ton/2000 lb) = 0.006 ton/yr				
11. Potential, Fugitive, and Actual Emissions Comment:				
Calculations based on emergency generator usage of 100 hours per year.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions NA of

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour
	Method of Compliance:	
	Allowable Emissions Comment (Description	
	Basis for Allowable Emissions Code:	Enture Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	· · · · · · · · · · · · · · · · · · ·
6.	Allowable Emissions Comment (Description	of Operating Method):
Al	lowable Emissions Allowable Emissions	of
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	of Operating Method):

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

I Otential Estimated Pugitive, and Dasenne o	C I I Ofected Actual Editions			
Pollutant Emitted: PM	2. Total Percent Efficiency of Control:			
P IVI				
3. Potential Emissions:	4. Synthetically Limited?			
	tons/year Yes No			
	(as applicable): NA			
to tons/year				
6. Emission Factor: 0.01941 lb/MM Btu	7. Emissions Method Code:			
Reference: Table 3.2-3, AP-42 7/00	3			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:			
NA tons/year	From: To:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:			
NA tons/year	5 years 10 years			
10. Calculation of Emissions:				
(0.01941 lb/MM Btu)(4.26 MM Btu/hr) = 0.083 lb/hr (0.083 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.004 ton/y				
11. Potential, Fugitive, and Actual Emissions Co	11. Potential, Fugitive, and Actual Emissions Comment:			
Calculations based on emergency generator usage of 100 hours per year.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions NA of

	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:			
	Allowable Emissions Comment (Description			
	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable		
3.	Allowable Emissions and Units:	Emissions: 4. Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:	tons/year		
6.	Allowable Emissions Comment (Description	of Operating Method):		
Al	lowable Emissions Allowable Emissions	of		
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of Operating Method):		

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: HAPS	2. Total Percent Efficie			
3. Potential Emissions: 0.10 lb/hour 0.005		netically Limited? 'es No		
to tons/year	(as applicable): NA			
6. Emission Factor: 0.0234 lb/MM Btu Reference: AP-42, Table 3.2-3		7. Emissions Method Code: 3		
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month From:	Period: o:		
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitoria 5 years	ng Period: 10 years		
10. Calculation of Emissions: (0.0234 lb/MM Btu)(4.26 MM Btu/hr) = 0.10 lb/hr (0.10 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 0.005 ton/y				
11. Potential, Fugitive, and Actual Emissions Comment:				
Calculations based on emergency generator usage of 100 hours per year.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions NA of

	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:			
6.				
	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
	Method of Compliance:			
	Allowable Emissions Comment (Description lowable Emissions Allowable Emissions			
	Basis for Allowable Emissions Code:			
1.		2. Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of Operating Method):		

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G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation NA of

	sible Emissions Limitation: Visible Emissi			
1.	Visible Emissions Subtype:	2. Basis for Allowable Op Rule	oacity: Other	
3.	Maximum Period of Excess Opacity Allow	sceptional Conditions: ed:	% min/hour	
	2. Method of Compliance:			
	3. Visible Emissions Comment:			
Visible Emissions Limitation: Visible Emissions Limitation of				
<u>Vi</u>	sible Emissions Limitation: Visible Emiss	ions Limitation of		
	Visible Emissions Subtype:	2. Basis for Allowable O	pacity: Other	
	Visible Emissions Subtype: Allowable Opacity:	2. Basis for Allowable O Rule cceptional Conditions:	<u> </u>	
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % E	2. Basis for Allowable O Rule cceptional Conditions:	Other %	

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H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor NA of ___ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: Rule Other 4. Monitor Information... Manufacturer: Model Number: Serial Number: 6. Performance Specification Test Date: 5. Installation Date: 7. Continuous Monitor Comment: Continuous Monitoring System: Continuous Monitor ___ of ___ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: Rule Other 4. Monitor Information... Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment:

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I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached Decomposit ID: Attach P. Proviously Submitted Date
_	Attached, Document ID: <u>Attach. B</u> Previously Submitted, Date
2.	Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Attached, Document.nih.gov/ Previously Submitted, Date
3.	Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: <u>See note below</u> Previously Submitted, Date
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
	Attached, Document ID: Previously Submitted, Date
Ļ	Not Applicable (construction application)
5.	Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date Not Applicable
6.	Compliance Demonstration Reports/Records:
	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date:
	Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	Not Applicable ■
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7.	Other Information Required by Rule or Statute:
	Attached, Document ID: Not Applicable

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I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

[3]

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7),				
F.A.C.; 40 CFR 63.43(d) and (e)):				
Attached, Document ID: <u>Narr. Sec. 3.0</u> Not Applicable				
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-				
212.500(4)(f), F.A.C.):				
Attached, Document ID: Not Applicable				
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)				
Attached, Document ID: <u>See note below</u> Not Applicable				
Additional Requirements for Title V Air Operation Permit Applications				
1. Identification of Applicable Requirements:				
Attached, Document ID: <u>NA</u>				
2. Compliance Assurance Monitoring:				
Attached, Document ID: Not Applicable				
3. Alternative Methods of Operation:				
Attached, Document ID: Not Applicable				
4. Alternative Modes of Operation (Emissions Trading):				
Attached, Document ID: Not Applicable				
Additional Requirements Comment				
Supplemental information is provided in the narrative description accompanying these forms.				
The manufacturer has not completed design specifications and has not provided final emission rates at this time. Emissions will comply with applicable 40 CFR Subpart JJJJ requirements.				
Specifications for the sampling facilities have not been completed at this time. Final specifications will comply with USEPA and FDEP regulatory requirements.				

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A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1.	Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.) NA				
	The emissions emissions unit		missions Unit Informati	ion Section is a regulated	
			missions Unit Informati	ion Section is an	
	unregulated er	nissions unit.			
En	nissions Unit Descr	iption and Status			
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)		
	single process	or production unit, or ac	ion addresses, as a single tivity, which produces of efinable emission point	one or more air	
	group of proces	ss or production units ar	ion addresses, as a single and activities which has a also produce fugitive er	t least one definable	
			ion addresses, as a single ectivities which produce	e emissions unit, one or fugitive emissions only.	
	1. Description of	Emissions Unit Address	sed in this Section:		
em		s fired, spark ignition, 4 engine, FGT Engine No.	-stroke, rich-burn, inter GEN05	rnal combustion	
3.	Emissions Unit Ide	entification Number: 01	3		
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit	
	Status Code:	Construction Date:	Date:	Major Group SIC Code:	
	C	NA	NA	49	
8.	Federal Program A	pplicability: (Check al	that apply)		
	Acid Rain Uni	t			
	CAIR Unit				
	Hg Budget Un	it			
9.	9. Package Unit: Manufacturer: Generac Model Number: SG300				
10	Generator Namepl	ate Rating: 0.3 MW			
11	Emissions Unit Co	mment:			
	Fuel will be exclusively natural gas from the FGT's gas pipeline. The proposed engine will have a three way catalytic converter.				

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Emissions Unit Control Equipment/Method: Control NA of_
1. Control Equipment/Method Description:
2. Control Device or Method Code:
Emissions Unit Control Equipment/Method: Control of
1. Control Equipment/Method Description:
2. Control Device or Method Code:
Emissions Unit Control Equipment/Method: Control of
1. Control Equipment/Method Description:
·
2. Control Device or Method Code:
Emissions Unit Control Equipment/Method: Control of
1. Control Equipment/Method Description:

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2. Control Device or Method Code:

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

Maximum Process or Throughput Rate: NA		
2. Maximum Production Rate: NA		
3. Maximum Heat Input Rate: 4.26 million Btu/hr		
4. Maximum Incineration Rate: pounds/hr NA		
tons/day		
5. Requested Maximum Operating Schedule:		
hours/day	days/week	
weeks/year	100 hours/year	
6. Operating Capacity/Schedule Comment:		
naintenance and testing (40 CFR 60.4243(d)). This does not inc	iduc emergency operation.	
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C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification of Point on Flow Diagram: GEN05	Plot Plan or	2. Emission Point T	Type Code:
3.	Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			for VE Tracking:
	NA			
4.	ID Numbers or Descriptio	ns of Emission Ur	nits with this Emissior	n Point in Common:
	NA			
5.	Discharge Type Code: V	6. Stack Height 7.0 Feet	•	7. Exit Diameter: 0.33 feet
8.	Exit Temperature: 1490 °F	9. Actual Volumetric Flow Rate: 4335 acfm		10. Water Vapor: NA %
11.	11. Maximum Dry Standard Flow Rate: NA dscfm		12. Nonstack Emission Point Height: NA feet	
13.	Emission Point UTM Coo			Latitude/Longitude
	Zone: 16 East (km): North (km)	719.97 : 3377.39	Latitude (DD/M) Longitude (DD/N)	· · · · · · · · · · · · · · · · · · ·
15.	Emission Point Comment			,

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type):				
Natural gas fired 4-stroke, rich-burn engine driving an emergency generator.				
2. Source Classification Coc 2-02-002-53	le (SCC):	3. SCC Units	nillion cubic feet burned	
4. Maximum Hourly Rate: 0.0041	5. Maximum 0	Annual Rate: .41	6. Estimated Annual Activity Factor: NA	
7. Maximum % Sulfur: NA	8. Maximum N	% Ash: JA	9. Million Btu per SCC Unit: 1040	
10. Segment Comment:				
Annual usage based on 10	00 hours per year	operation.		
Segment Description and R				
1. Segment Description (Process/Fuel Type):				
2. Source Classification Cod	le (SCC):	3. SCC Units		
2. Source Classification Coc	ic (SCC).	3. See onks		
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:	
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:	
10. Segment Comment:				

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC			EL
SO ₂			NS
PM			NS
NO _X			EL
СО			EL
PM ₁₀			NS
HAPs			NS
	1		

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: NOX	2. Total Percent Efficients 5.7	ency of Control:
3. Potential Emissions: 2.00 lb/hour 0.20		netically Limited? 'es 🔲 No
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA	
6. Emission Factor: 2.00 g/hp-hr at 5.7% cont Reference: Vendor data	rol	7. Emissions Method Code:
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month From:	<u> </u>
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitori 5 years	ng Period:] 10 years
10. Calculation of Emissions: (2.00 g/hp-hr)(454 bhp)(1lb/454 g) = 2.00 lb/hr (2.00 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.10 ton/yr		
11. Potential, Fugitive, and Actual Emissions Comment:		
Calculations based on emergency generator usa efficiency.	ge of 100 hours per year	and minimum control

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1	Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA			
l	Allowable Emissions and Units: 2.0 g/hp-hr.	4. Equivalent Allowable Emissions: 2.00 lb/hour 0.10 tons/year			
	Method of Compliance: Monitor hours of operation				
6. A	Allowable Emissions Comment (Description	of Operating Method):			
6	60.4230 Table 1 limits NOX emissions to 2 g	/hp-hr.			
Allo	wable Emissions Allowable Emissions	of			
1. E	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3. A	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5. N	Method of Compliance:				
6. A	6. Allowable Emissions Comment (Description of Operating Method):				
Allo	wable Emissions Allowable Emissions	of			
1. E	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3. A	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5. N	Method of Compliance:				
6. A	Allowable Emissions Comment (Description	of Operating Method):			

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1 D-11-4 F	2 T . 1 D . E.C.	
Pollutant Emitted: CO	2. Total Percent Efficience 96.6	ency of Control:
3. Potential Emissions:	4. Synth	netically Limited?
4.0 lb/hour 0.40		es No
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA	
6. Emission Factor: 4.0 g/hp-hr at 96.6% cont	rol	7. Emissions Method Code:
Reference: Vendor data		5
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
NA tons/year	From:	o:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:
NA tons/year	5 years	10 years
10. Calculation of Emissions:		
(4.00 g/hp-hr)(454 bhp)(1 lb/454 g) = 4.03 lb/hr (4.03 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.20 ton/yr		
11. Potential, Fugitive, and Actual Emissions Co	omment:	
Calculations based on emergency generator usage of 100 hours per year and minimum control efficiency.		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code:
RULE

2. Future Effective Date of Allowable Emissions: NA

3. Allowable Emissions and Units:
4.00 g/hp-hr.

4. Equivalent Allowable Emissions:
4.00 lb/hour
0.20 tons/year

5. Method of Compliance:
Monitor hours of operation

6. Allowable Emissions Comment (Description of Operating Method):

60.4230 Table 1 limits CO emissions to 4 g/hp-hr.

Allowable	Emissions	Allowable Emission	ns	of_	

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

Allowable Emissions __ of __

2. Future Effective Date of Allowable Emissions:
4. Equivalent Allowable Emissions: lb/hour tons/year
ption of Operating Method):

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: VOC	2. Total Percent Efficiency of Control: 0	
3. Potential Emissions: 0.29 lb/hour 0.01	tons/year 4. Synthetically Limited? ☐ Yes No	
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA	
6. Emission Factor: 2.91 g/hp-hr THC Reference: Vendor data	7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:	
NA tons/year	From: To:	
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitoring Period: 5 years 10 years	
10. Calculation of Emissions: Assume VOC 10% of THC = 0.29 g/hp-hr (0.29 g/hp-hr)(454 bhp)(11b/453.6 g) = 0.29 lb/hr (0.29 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.01 ton/yr		
11. Potential, Fugitive, and Actual Emissions C	omment:	
Calculations based on emergency generator usa efficiency.	ge of 100 hours per year and minimum control	

1. Basis for Allowable Emissions Code:

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2. Future Effective Date of Allowable

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions	Allowable I	Emissions	1	of	1
				-	

	RULE		Emissions: NA	
3.	Allowable Emissions and Units: 0.29 g/hp-hr.	4.	. Equivalent Allowable Emissions: 0.29 lb/hour 0.01 tons/yea	
5.	Method of Compliance: Monitor hours of operation	_L		
6.	Allowable Emissions Comment (Description	of	Operating Method):	
	60.4230 Table 1 limits VOC emissions to 1 g	g/hp-	hr.	
Al	lowable Emissions Allowable Emissions	of_		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date Emissions:	of Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable lb/hour	Emissions: tons/year
5.	Method of Compliance:	.1		
6.	Allowable Emissions Comment (Description	of	Operating Method):	
Ali	lowable Emissions Allowable Emissions	of_		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date Emissions:	of Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable	Emissions:
	N. 1. 1. 0.0		lb/hour	tons/year
5.	Method of Compliance:			
0.	Allowable Emissions Comment (Description	010	Operating Method):	

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS (Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control:		
3. Potential Emissions: 0.117 lb/hour 0.006	4. Synthetically Limited? Stons/year Yes No		
to tons/year	(as applicable): NA		
6. Emission Factor: 10 grains / 100 scf Reference: FERC limit	7. Emissions Method Code:		
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month Period: From: To:		
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitoring Period: 5 years 10 years		
10. Calculation of Emissions: (10 gr S/100 scf)(4100 scf/hr)(1 lb/7000 gr) = 0.059 (0.059 lb S/hr)(2 lb SO2/lb S) = 0.117 lb SO2/hr (0.117 lb SO2/hr)(100 hr/yr)(1 ton/2000 lb) = 0.006 the second content of the second co	con/yr		
11. Potential, Fugitive, and Actual Emissions Co	omment:		
Calculations based on emergency generator usag	ge of 100 hours per year.		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions NA of

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour		
5.	Method of Compliance:				
6.	6. Allowable Emissions Comment (Description of Operating Method):				
Al	owable Emissions Allowable Emissions	of_			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:				
6.	Allowable Emissions Comment (Description	of	Operating Method):		
Al	lowable Emissions Allowable Emissions	of_			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:				
6.	Allowable Emissions Comment (Description	of	Operating Method):		

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1 P. 11 P. 11		
Pollutant Emitted: PM	2. Total Percent Efficie	ency of Control:
3. Potential Emissions:	4. Synth	netically Limited?
0.083 lb/hour 0.004		es No
to tons/year	(as applicable): NA	
6. Emission Factor: 0.01941 lb/MM Btu		7. Emissions Method Code:
Reference: Table 3.2-3, AP-42 7/00		3
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
NA tons/year	From: T	o:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoria	ng Period:
NA tons/year	5 years	10 years
10. Calculation of Emissions:		
(0.01941 lb/MM Btu)(4.26 MM Btu/hr) = 0. (0.083 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.0	04 ton/y	
11. Potential, Fugitive, and Actual Emissions Co	omment:	
Calculations based on emergency generator usag	ge of 100 hours per year.	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions NA of

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
	Allowable Emissions Comment (Description	
	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	of Operating Method):
Al	lowable Emissions Allowable Emissions	of
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	of Operating Method):

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: HAPS	2. Total Percent Effici	ency of Control:
3. Potential Emissions: 0.10 lb/hour 0.005	I	hetically Limited? Yes No
to tons/year	(as applicable): NA	
6. Emission Factor: 0.0234 lb/MM Btu Reference: AP-42, Table 3.2-3		7. Emissions Method Code:
8.a. Baseline Actual Emissions (if required): NA tons/year	8.b. Baseline 24-month From:	l Period: Γο:
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitori 5 years	ing Period: 10 years
10. Calculation of Emissions: (0.0234 lb/MM Btu)(4.26 MM Btu/hr) = 0.1 (0.10 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 0.0	005 ton/y	
Calculations based on emergency generator usage	ge of 100 hours per year.	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions NA of

	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:		
6.	Allowable Emissions Comment (Description	of	Operating Method):
Al	lowable Emissions Allowable Emissions	of_	
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:		
6.	Allowable Emissions Comment (Description	of(Operating Method):
Al	lowable Emissions Allowable Emissions	of_	
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year
	Method of Compliance:		
6.	Allowable Emissions Comment (Description	of	Operating Method):

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G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation NA of

[3]

			initiation <u>INA</u> 01	
1.	Visible Emissions Subtype:	2.	Basis for Allowable	e Opacity:
			Rule	Other
3.	Allowable Opacity:	J		
-			ional Coults	0.4
ļ	Maximum Period of Excess Opacity Allowe	xcepu	ional Conditions:	%
_		ea:		min/hour
	2. Method of Compliance:			
 	2 V: 11 F : : : : : : : : : : : : : : : : :			
	3. Visible Emissions Comment:			
Vi	sible Emissions Limitation: Visible Emission	ana I	imitatian C	
1.	Visible Emissions Subtype:	2.	Basis for Allowable	Opacity:
			Rule	Other
3.	Allowable Opacity:			
	Normal Conditions: % Exc	ceptio	onal Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	onar conditions.	min/hour
4	Method of Compliance:			mm/noui
••	welled of compliance.			
5.	Visible Emissions Comment:			
	sold Emissions Comment.			
				i

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H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor NA of

1.	2	
	Parameter Code:	2. Pollutant(s):
3.	•	Rule Other
4.	Manufacturer:	
	Model Number:	Serial Number:
5.		6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	
	ontinuous Monitoring System: Continuous	
1.	Parameter Code:	2. Pollutant(s):
	CMS Requirement:	Rule Other
4.	Monitor Information	
	Manufacturer:	
	Manufacturer: Model Number:	Serial Number:
5.	Manufacturer:	Serial Number: 6. Performance Specification Test Date:

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I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Attach. B Previously Submitted, Date
2.	Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Attached , Document.new.org/">Attached, Document.new.org/">Attached
3.	Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: <u>See note below</u> Previously Submitted, Date
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
	Attached, Document ID: Previously Submitted, Date Not Applicable (construction application)
5.	Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date
	Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
ŀ	Previously Submitted, Date: Test Date(s)/Pollutant(s) Tested:
 	Test Date(s)/Testea.
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	Not Applicable
,	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7.	Other Information Required by Rule or Statute: Attached, Document ID: Not Applicable

Section [3] **of** [3]

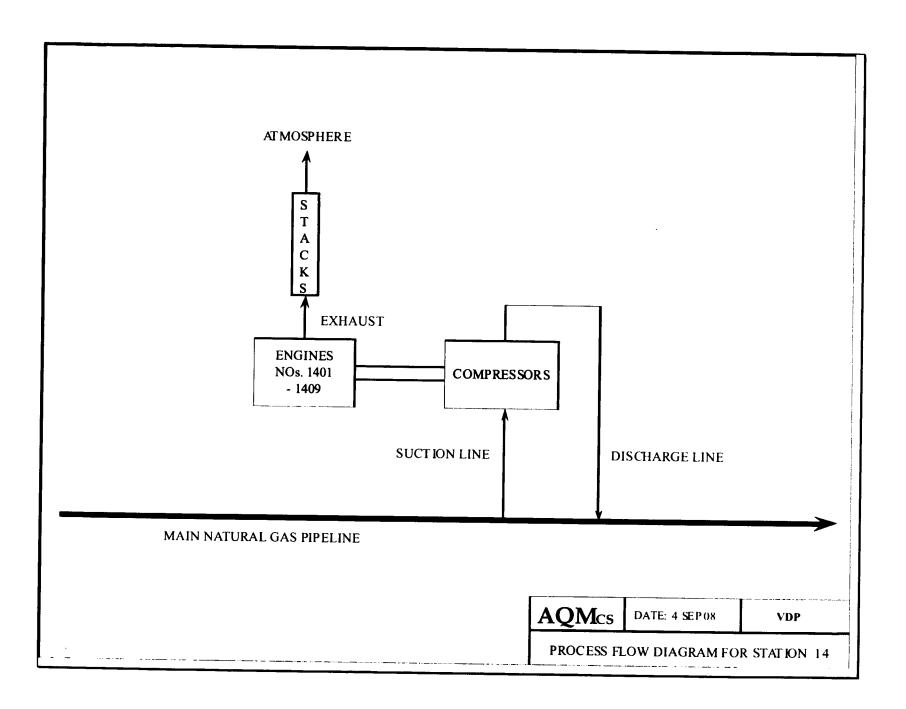
I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

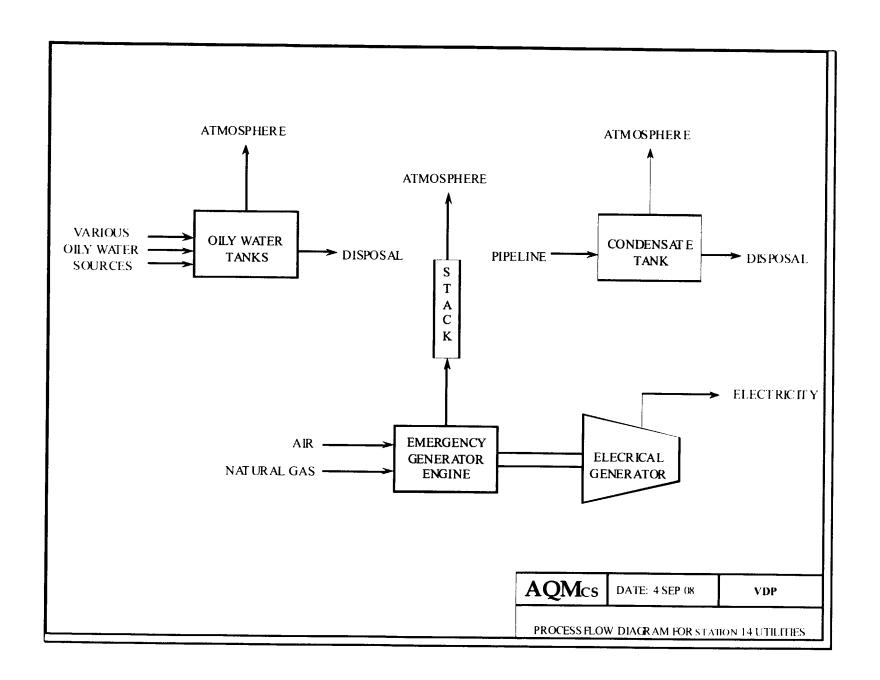
Additional Requirements for Air Construction Permit Applications

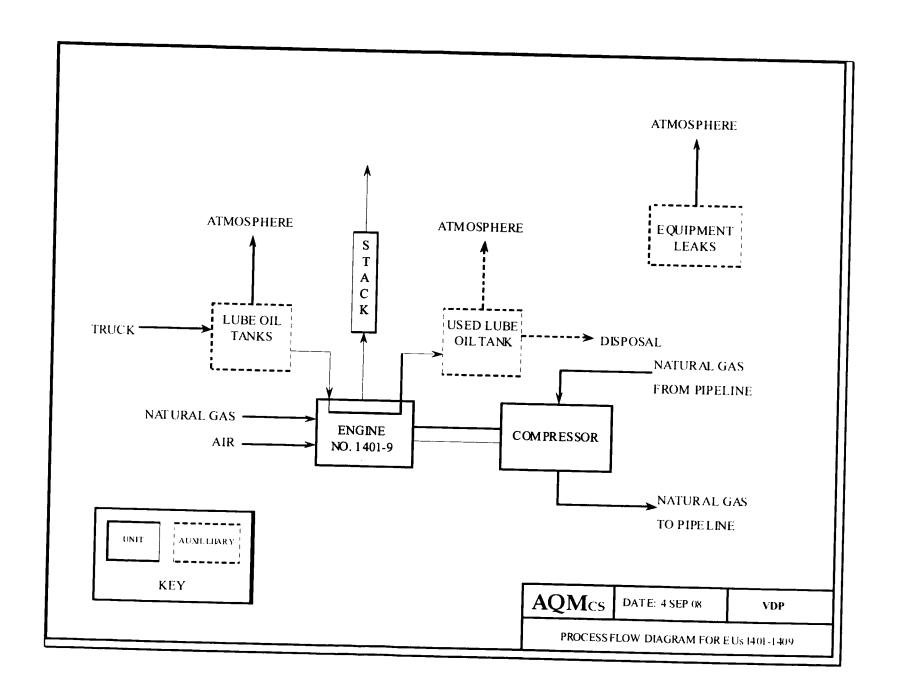
1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7),
F.A.C.; 40 CFR 63.43(d) and (e)):
Attached, Document ID: <u>Narr. Sec. 3.0</u> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
212.500(4)(f), F.A.C.):
Attached, Document ID: Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)
Attached, Document ID: <u>See note below</u> Not Applicable
Additional Requirements for Title V Air Operation Permit Applications
1. Identification of Applicable Requirements:
Attached, Document ID: <u>NA</u>
2. Compliance Assurance Monitoring:
Attached, Document ID: Not Applicable
3. Alternative Methods of Operation:
Attached, Document ID: Not Applicable
4. Alternative Modes of Operation (Emissions Trading):
Attached, Document ID: Not Applicable
Additional Requirements Comment
Supplemental information is provided in the narrative description accompanying these forms.
The manufacturer has not completed design specifications and has not provided final emission rates at this time. Emissions will comply with applicable 40 CFR Subpart JJJJ requirements.
Specifications for the sampling facilities have not been completed at this time. Final specifications will comply with USEPA and FDEP regulatory requirements.

Attachment B

Process Flow Diagram







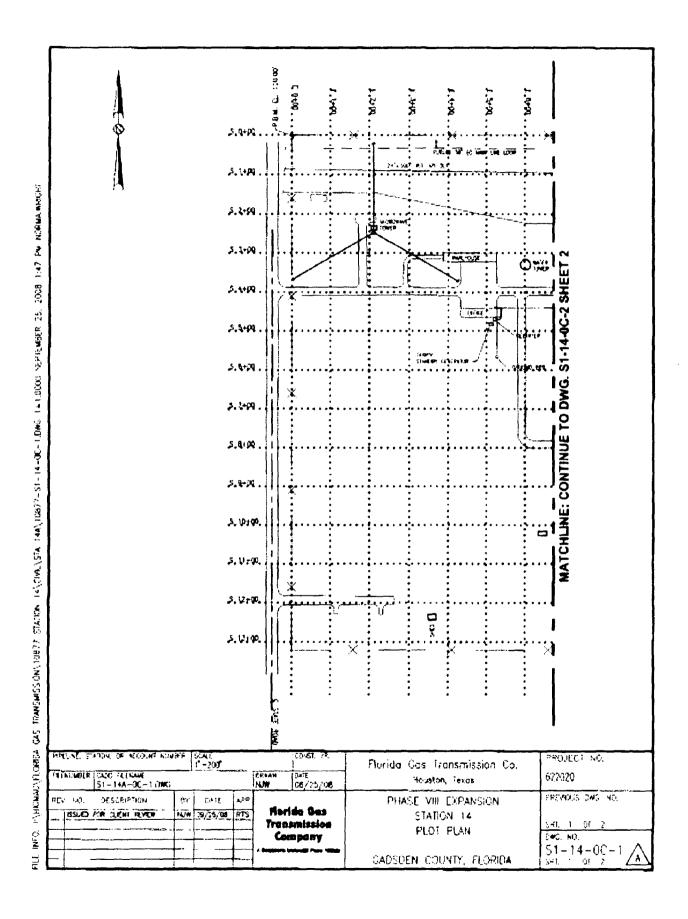
achment C ons of Unconfined Particulate Matter

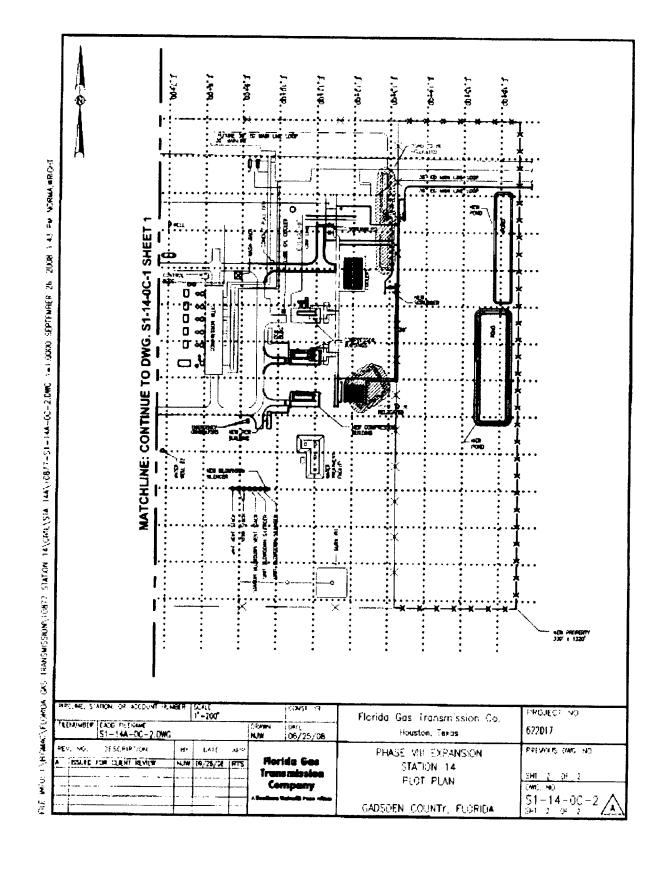
Precautions to Prevent Emissions of Unconfined Particulate Matter

Precautions that will be taken to prevent unconfined emissions of unconfined particulate matter include:

- a) Chemical or water application to unpaved roads and unpaved yard areas;
- b) Paving and maintenance of roads, parking areas and yards; Landscaping or planting of vegetation;
- d) Other techniques, as necessary.

Attachment D
Plot Plan





Attachment E

Vendor Information

Solar Model Titan T-20500S Turbine
Generac SG300

Solar Model Titan T-20500S Turbine

Solar Turbines

A Caterpillar Company

PREDICTED EMISSION PERFORMANCE

CO EMISSIONS

Customer FGT		
Job ID		
HO08-0024		
Inquiry Number		
Bus Bu		
Run By	Đạte Run	
James Belmont	10-Jul-08	

NOX EMISSIONS

Engine Model TITAN 130-20502S CS/MD 59F MATCH	
Fuel Type SD NATURAL GAS	Water Injection
Engine Emissions Data REV. 0.0	

UHC EMISSIONS

		Rel. Humidity	60.0%	Temperature	59.0 Deg. F
15.00		25.00		2!	5.00
37.31		37.86		7 21	1.69
0.060		0.061			035
0.59		0.60			.34
	37.31 0.060	37.31 0.060	37.31 37.86 0.060 0.061	37.31 37.86 0.060 0.061	37.31 37.86 21 0.060 0.061 0.

Notes

- For short-term emission limits such as lbs/hr., Solar recommends using "worst case" anticipated operating conditions specific to the application and the site conditions. Worst case for one pollutant is not necessarily the same for another.
- Solar's typical SoLoNOx warranty, for ppm values, is available for greater than 0 deg F, and between 50% and 100% load for gas fuel, and between 65% and 100% load for liquid fuel (except for the Centaur 40). An emission warranty for non-SoLoNOx equipment is available for greater than 0 deg F and between 80% and 100% load.
- 3 Fuel must meet Solar standard fuel specification ES 9-98. Emissions are based on the attached fuel composition, or, San Diego natural gas or equivalent.
- 4. If needed, Solar can provide Product Information Letters to address turbine operation outside typical warranty ranges, as well as non-warranted emissions of SO2, PM10/2.5, VOC, and formaldehyde.
- 5 Solar can provide factory testing in San Diego to ensure the actual unit(s) meet the above values within the tolerances quoted. Pricing and schedule impact will be provided upon request.
- Any emissions warranty is applicable only for steady-state conditions and does not apply during start-up, shut-down, malfunction, or transient event.

Solar Turbines

A Caterpillar Company

PREDICTED ENGINE PERFORMANCE

Customer		
FGT		
Јоб ID HO08-0024		
Run By	Date Run	
James Belmont	10-Jul-08	
Engine Performance Code	Engine Performance Data	
REV. 3.40	REV. 1.0	

Model TITAN 130-20502S	
Package Type CS/MD	
Match 59F MATCH	
Fuel System GAS	
Fuel Type SD NATURAL GAS	

DATA FOR MINIMUM PERFORMANCE

Elevation Inlet Loss Exhaust Loss	feet in H20 in H20	4.0 4.0
Engine Inlet Temperature	deg F	59.0
Relative Humidity	%	60.0
Driven Equipment Speed	RP M	8351
Specified Load	HP	FULL
Net Output Power	HP	19465
Fuel Flow	mmBtu/hr	142.59
Heat Rate	Btu/HP-hr	7326
Therm Eff	%	34.732
Engine Exhaust Flow	ibm/hr	393041
Exhaust Temperature	deg F	944

Fuel Gas Composition (Volume Percent)

92.79
4.16
0.84
0.18
0.04
0.04
0.44
0.0001
1.51

Fuel	Gas	Pro	perties
------	-----	-----	---------

Nitrogen (N2)	1.51			
LHV (Btu/Scf)	939.2 Specific Gravity	0.5970	Wobbe Index at 60F	1215.6

This performance was calculated with a basic inlet and exhaust system. Special equipment such as low noise silencers, special filters, heat recovery systems or cooling devices will affect engine performance. Performance shown is "Expected" performance at the pressure drops stated, not guaranteed

Generac SG300



STATEMENT OF EXHAUST EMISSIONS NAT GAS FUELED GENERATOR

The measured emission values provided here are proprietary to General and its' authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc. The data provided shall not be meant to include information made public by Generac.

Generator Type: SG300

kWe Rating:

Engine Size:

13.3 Liter

Maximum BHP: 454

Engine Family: Generac 13.3 Liter 6 Cylinder

Aspiration:

Turbocharged-aftercooled

Speed (RPM):

2350 RPM

Additional Equipment Description: Commercial Natural Gas

Emissions Test 5 mode

Engine Certification: No Catalyst

Measured Emissions (grams/brake horsepower-hour) based on parent engine @ 454 bhp

<u> </u>	NQx	HC	THC + NO,
118.3	2.12	2.91	5.03

- The stated values are actual exhaust emission test measurements obtained from a unit representative of the generator type and engine described above.
- Values based on 5-mode testing are official data of record as submitted to regulatory agencies for certification purposes. Testing was conducted in accordance with prevailing EPA & CARB protocols, which are typically accepted by SCAOMD and other regional authorities.
- Values based on full load testing are provided for reference only due to 5-mode test data being unavailable. Data may be based on testing performed by either the engine supplier or Generac Power Systems.
- No emission values provided above are to be construed as guarantees of emission levels for any given Generac generator unit.
- Generac Power Systems reserves the right to revise this information without prior notice
- Consult state and local regulatory agencies for specific permitting requirements.
- The emission performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and must be consulted by the permit applicant/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generating set

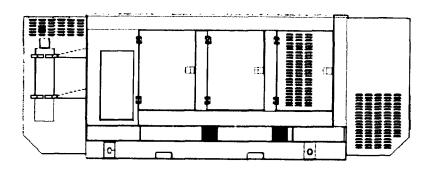
INDUSTRIAL SALES P.O. BOX 8 • WAUKESHA, WI 53187 • 262-544-4800 • FAX 262-544-4854

SSD, E6297W Rev Date 8-28-06

SG275 SG300

Liquid Cooled Gas Engine Generator Sets

Standby Power Rating 275 KW 60 Hz / 275 KVA 50 Hz 300 KW 60 Hz / 300 KVA 50 Hz





FEATURES

- INNOVATIVE DESIGN & PROTOTYPE TESTING are key components of GENERAC'S successin "IMPROVING POWERBY DESIGN." But it doesn't slip there. Total commitment to component lesting, relatiffly testing, endronmental testing, destruction and the testing, plus feeting to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- TEST CRITERIA:
 - PROTOTYPE TESTED
 - SYSTEM TORSIONAL TESTED
 - Z ELECTRO-MAGNETIC INTERFERENCE
 - ✓ NEMA MG1 EVALUATION
 - Z MOTOR STARTING ABILITY
 - SHOAT CIRCUIT TESTING
 - Z. UL2200 COMPLIANCE AVAILABLE

- SOLID-STATE, FREQUENCY COMPENSATED DIGITAL VOLTAGE REGULATION. This state-of-the-airl power maximizing regulation system is standard on all General middle. It provides optimized FAST RESPONSE to changing had conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically for que-matching the surge loads to the engine.
- SINGLE SOURCE SERVICE RESPONSE from General's greater network provides parts and service knownthat for the entire unit, from the engine to the smallest electricity comprinent incurrence on your own when you wan a GENERAD POWER SYSTEM.
- GENERAC TRANSFER SWITCHES, SWITCHGEAR AND ACCESSORIES. Long life and reliability is synonymous with GENERAC POWER SYSTEMS, One reason for this combination that the GENERAC product line includes its own transfer systems, accessories, switchgeer and controls for total system competibility.



APPLICATION & ENGINEERING DATA

GENERATOR SPECIFICATIONS

SG275/SG300

ENGINE SPECIFICATIONS GYLINDERS 6 In-time ALTERNATORSelf-ventile led and drip-proof COUPLING. Flexible Disc NOTE: Generalor rating and performance in accordance with 1906526-5, BS5514, SAE J1349, ISO3046 and DIN6271 standards. EXCITATION SYSTEM PERMANENT MAGNET PILOT EXCITER....... Eighleen-gole exciter / Magnetically coupled DC current / Mounted outboard of main bearing / 3 Phase Sensing, ± 1% regulation ∠ **GENERATOR FEATURES** ☐ Revolving field heavy duty generalist Directly connected to the engine Operating temperature rise 120 °C above a 40 °C ambient ☐ Insulation is Class Hirated at 150 % rise All prototype mode is have passed three phase short droug testing

CONTROL DANIEL FEATURES

CONTROL PANEL	FEATURES
☐ TWO FOUR LINE LCD DISPLAYS I	PEAD:
 Voltage (all phases) 	• Ourrent (all phases)
 Power factor 	•kW
• KVAR	 Transfer switch status
 Engine speed 	Low fuel pressure
• Run haurs	 Service reminders
Fault history	• OI pressure
 Coolant temperature 	Time and date
 Low oil pressure shuidown 	 High coolant temperature shutdown
 Cvervollage 	 Overspeed
 Low coolant level 	Low coolant level
 Not in auto position (flashing light) 	 Exercise speed
 ATS selection 	
☐ INTERNAL FUNCTIONS:	
 FT function for affemator pictedion from 	tithe to neutral and time to line short drouts.
 Emergency stop 	
 Programmable auto crank function 	
 2 wire start for any transfer switch 	
 Communicates with the General HTS 	3 frameter switch
 Built-in 7 day exerciser 	
 Adjustable engine speed at exerciser 	
 RS232 port for GenLink* control 	
 RS485 port remote communication 	
Cambus addressable	
 Governor controller and workage regula 	afor are built into the master control board.
	and a second second

• Temperature range -40 10 to 70 10

COMPRESSION RAIRD	19.5; 1
INTAKE AIR	Turbocharges/Artercooled
NUMBER OF MAIN BEARINGS	
CONNECTING RCCs	
CYLINDER HEAD	
GYUNDER LINERS	
IGNITION	
PISTONS	
CRANKSHAFT Induction He	dened, Ele-Forged Carbon Steel
VALVE TRAIN	
LIFTER TYPE	So ld
INTAKE VALVE MATERIAL	Special Heal Resistant Steel
EXHAUST VALVE MATERIAL	tn>.nel Alloy High Temp.
HARDENED VALVE SEATS	Highl Temp. Alloy Stellille Faced
ENGINE GOVERNOR	
ELECTRONIC	Standard
FREQUENCY REGULATION, NO-LO	
STEADY STATE REGULATION	<u>+</u> 0.25%
LUBRICATION SYSTEM	
TYPE OF OIL PUMP	
OIL FILTER	
CRANKCASE CAPACITY	27 Liters (7,13 gal.)
COOLING SYSTEM	
TYPE OF SYSTEM	
WATER PUMP	
TYPE OF FAN	
NUMBER OF FAN BLADES	
DIAMETER OF FAN	
COCLANT HEATER	249V, 2000 W
FUEL SYSTEM Fuel	
D Natural Gas	
CARBURETOR.	neit nw:⊴
SECONDARY FUEL REGULATOR	Net, Gas
AUTOMATIC FUEL LOCKOFF SOLEN	OID Standerd
OPERATING FUEL PRESSURE SYST	EMS10"16 15"H,O
ELECTRICAL SYSTEM	
BATTERY CHARGE ALTERNATOR	20 Amps at 24 V
STARTER MOTOR	24 V
RECOMMENDED BATTERY	(2) - 12 V, 925 OCA, 31
GROUND POLARITY	Negative

Fash; definitions - Standby Applicable for supplying emergency power for the dutation of the USBy power busing. No overload capability is existable for this rating. (A) ratings in accordance with ESSS14, ISO3046 and CheEzTh, Fitne (Evertise Purchase) that is accordance with ESSS14, ISO3046 and CheEzTh, Fitne (Evertise Purchase) that is accordance with ESSS14, ISO3046, ISO3046, ISO3047 and O MeZTh.



SG275/SG300

OPERATING DATA	00	0.75				
GENERATOR OUTPUT VOLTAGE/KW-SOHZ		275	SG300			
120/208V, 2-phase, 0.8 pt Note: Consultyour	<u>KW</u> 275	<u>Rated ≃MP</u> 954	<u>K.W</u> 300	Rated #MP		
120/240V, 3-these old of General base or	275	827	300	10 41 962		
277/480V, 3-phase, 0.8 pt admoral visage.	275	413	300	902 451		
600V, 3-phase, 0,8 pt	275	331	300	451 361		
				.761		
MOTOR STARTING						
Maximum at 35% instantaneous voltage dip	208/240V	480V	208/240V	480V		
with standard afternator—60 Hz	800 KVA	1060 KVA	800 KVA	1060 KV A		
with optional afternator—60 Hz	1000 KVA	1350 KVA	1000 KVA	1350 KVA		
Fuel consumption and the society of the	<u>N.C</u>	<u>3.</u>	<u>N.</u>	<u>G.</u>		
Fuel consumption—60 Hz—100% Load _rt hr.		_				
No Load	90	-	90			
25% 50%	156		16			
50% 75%	225		23			
/ 5% 100%	906 379		310			
190%	378	14	4100			
COOLING						
Ocoleni capacity System lit. (US gal.)	56.9 (15)	56.9	1451		
Ocelant flow/min. 60 Hz 1,63 ga).	.9.61					
Heat rejection to coolant BTU/hr.	1,046	• 1	139) 1,048,250			
Inlet air 60 Hz (cfm)	19.2		19,200			
Max. operating air temp, onto radiator* indigner	60 (1		0 0 (140)			
Max. operating ambient temp.* *C (*F)	50 (1)		∞ (. 50 /1			
Max externel pressure drop on rad. In. H ₂ O	0.5		9.5			
COMBUSTION AIR REQUIREMENTS Flow of railed power 60 Hz mirrin. (cfm)	31.1 (1	100)	34 (1)	200)		
EXHAUST						
Exhaust flow at raied output 60 Hz mirrnin. (cfm) Max. recommended back pressure Kpa (Hg)	112 (3)		122 (4			
	5.0 (1		5.0 (1			
	147	-	149			
Exhaust outlet size (flange)	4* 1.1	Ll	4*1.	D.		
ENGINE						
Rated RPM 60 Hz	230	0	290	0		
HP at rated KW 60 Hz	419		2 <i>9</i> 5			
Piston speed 60 Hz m/min. (ft./min.)	690 (2)		590 (2			
BMEP 60 Hz	178		193			
DERATION FACTORS Temperature 1.9% for every 1090 above -no	40		40			
1.1% for every 10% above - 1F	104		104	ļ		
Altitude						
0.7% for every 100 m above - m	1220		106	7		
2.1% for every 1000 ft, above - ft,	4:06		350			

STANDARD ENGINE & SAFETY FEATURES

SG275/SG300

- High Coolant Temperature Automatic Shutdown Low Coolant Level Automatic Shutdown
- Low Of Pressure Automatic Shutdown
- Overspeed Automatic Shutdown (Solid-state)
- Crank Limiter (Solid-state).
- OI Etein Extension
- Redfetor Erein Extension
- Facktry-Installed Cool Flow Radiator
- Closed Coolant Recovery System.
- UV/C/zone Resistant Hoses
- Rubber-Booted Engine Electrical Connections
- Isochronous Governor

- Fuel Lockoff Sciencid
- Secondary Fuel Regulator (N.G.)
- Stainless Shed Flexible Exhaust Connection
- Battery Charge Alternator

- Battery Cattles
- Bettery Tray
 Vibration isolation of Unit to Mounting Base
- 24 Volt, Solerold-Activated Starter Motor
- Alt Gleaner
- Fan Guerd
- Control Conside (H1(e))

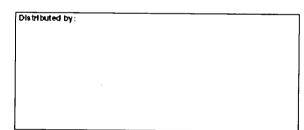
OPTIONS

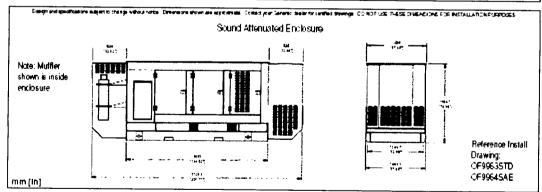
- OPTIONAL COOLING SYSTEM ACCESSORIES
 - Radiator Duct Adapter
- OPTIONAL FUEL ACCESSORIES
 - Flexible Fuel Lines
- OPTIONAL EXHAUST ACCESSORIES
 - Orlitical Exhaust Stencer
- OPTIONAL ELECTRICAL ACCESSORIES
 - Bettery, (2) 12 Volt, 135 A.H., 40LT
 - Bettery, (2) 12 Volt, 225 A.H., 8D

 - Bettery Healer
 2A Bettery Charger
 - 10A Dual Rate Battery Charger
- # OPTIONAL ALTERNATOR ACCESSORIES
- D Affernalist Strip Heater
- Alternator Tropicalization
- Main Line Circuit Breaker
- CONTROL CONSOLE OPTIONS
 - Digital Controller H100 see specification 017211038Y

- ADDITIONAL OPTIONAL EQUIPMENT
 - 2 Automatic Transfer Switch (GTS or HTS)
 - 20 Light Remote Annunctator
 - Remote Relay Penels
 - O Unit vibration isolators
 - Of Make-Up System
 - O Of Heater

 - Export Boxing
 - Gen⊔nk® Communications Software.
- OPTIONAL ENGLOSURES
 - Weather Protective
 - Stund Attenuated.
 - Aluminum and Stainless Sieel
 - Enclosed Muffer





GENERAC' POWER SYSTEMS, INC. + P.O. BOX 8 + WAUKESHA, WI 53187 262/5444811 · FAX 262/5444651

Buteth 01708400BY | Finted # 18A 04 07

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Attachment F

Emission Calculations

Compressor Station No. 14 Engine No. 1409 EPN: 011

NOx Emissions: (Based on Vendor Data)

lb NOx/hr = 8.52

tons NOx/yr = (lb NOx/hr)(2000 lb/1 ton)(8760 hr/1 yr)

= (8.52 lb/hr)(2000 lb/1 ton)(8760 hr/yr)

= 37.318

CO Emissions: (Based on Vendor Data)

Ib CO/hr = 8.64

tons CO/yr = (lb CO/hr)(2000 lb/1 ton)(8760 hr/1 yr)

= (8.64 lb/hr)(2000 lb/1 ton)(8760 hr/yr)

= 37.843

VOC Emissions: (Based on Vendor Data)

lb UHC/hr = 4.950

lb VOC/yr = (0.495 UHC lb/hr) * (VOC fraction of 0.1)

= 0.495

tons VOC/yr = (lb VOC/hr)(2000 lb/1 ton)(8760 hr/1 yr)

= (0.50 lb/hr)(2000 lb/1 ton)(8760 hr/yr)

= 2.168

SO2 Emissions: (Based on FERC Limits)

lb S/hr = (gr S/100 scf)(MMscf/hr)(1 lb/7000 gr)

= (10 gr S/100 scf)(0.1518 MMscf/hr)(1 lb/7000 gr)

= 2.169

lb SO2/hr = (lb S/hr)(2 lb SO2/lb S)

= (2.17 lb S/hr)(2 lb SO2/lb S)

= 4.338

tons SO2/yr = (lb SO2/hr)(hr/yr)(1 ton/2000 lb)

= (4.34 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb)

= 18.999

PM 10/2.5 Emissions: (Based on AP-42 Table 3.1-2a, 4/00)

Ib PM/hr = (Ib PM/MMBtu)(MMBtu/hr)

= (0.0066 lb/MMBtu)(157.89 MMBtu/hr)

= 1.042

tons PM/yr = (lb PM/hr)(hr/yr)(1 ton/2000 lb)

= (1.04 lb PM/hr)(8760 hr/yr)(1 ton/2000 lb)

= 4.564

HAPs Emissions: (Based on AP-42 Table 3.1-3, 4/00)

lb HAP/hr = (lb HAP/MMBtu)(MMBtu/hr)

= (0.00102700 lb/MMBtu)(157.890 MMBtu/hr)

= 0.162

tons HAP/yr = (lb HAP/hr)(hr/yr)(1 ton/2000 lb)

 \approx (0.162 lb HAP/hr)(8760 hr/yr)(1 ton/2000 lb)

= 0.710

Emergency Gen. Nos. 4 & 5 EPNs:

NOx Emissions: (Based on Vendor Data)

1b NOx/hr = (g/bhp-hr)(bhp)(1 lb/453.59 g)

= (2.12 g/bhp-hr)(454 bhp)(1 lb/453.59 g)

= 2.12

Control Effic. = 5.7%

Controlled NOx lb/hr = 2.00

tons NOx/yr = (lb NOx/hr)(hr/yr)(1 ton/2000 lb)

= (2.12 lb NOx/hr)(100 hr/yr)(1 ton/2000 lb)

= 0.106

Control Effic. = 5.7%

Controlled NOx tpy = 0.10

CO Emissions: (Based on Vendor Data)

1b CO/hr = (g/bhp-hr)(bhp)(1 lb/453.59 g)

= (118.3 g/bhp-hr)(454 bhp)(1 lb/453.59 g)

= 118.404

Control Effic. = 96.6%

Controlled CO lb/hr = 4.03

tons CO/yr = (lb CO/hr)(hr/yr)(1 ton/2000 lb)

= (118.40 lb CO/hr)(100 hr/yr)(1 ton/2000 lb)

5.92

Control Effic. = 96.6%

Controlled CO tpy = 0.20

VOC Emissions: (Based on Vendor Data)

lb VOC/hr = (g/bhp-hr)(bhp)(1 lb/453.59 g)

= (0.29 g/bhp-hr)(454 bhp)(1 lb/453.59 g)

= 0.290

Control Effic. = 0%

Controlled VOC lb/hr = 0.290

tons VOC/yr = (lb VOC/hr)(hr/yr)(1 ton/2000 lb)

= (0.29 lb VOC/hr)(100 hr/yr)(1 ton/2000 lb)

= 0.0145

Control Effic. = 0%

Controlled CO tpy = 0.0145

SO2 Emissions: (Based on FERC Limits)

lb S/hr = (gr S/100 scf)(MMscf/hr)(1 lb/7000 gr)

= (10 gr S/100 scf)(0.0041 MMscf/hr)(1 lb/7000 gr)

≃ 0.059

lb SO2/hr = (lb S/hr)(2 lb SO2/lb S)

= (0.06 lb S/hr)(2 lb SO2/lb S)

= 0.117

tons SO2/yr = (lb SO2/hr)(hr/yr)(1 ton/2000 lb)

= (0.117 lb SO2/hr)(100 hr/yr)(1 ton/2000 lb)

= 0.006

PM Emissions: (Based on AP-42 Table 3.2-3, 7/00)

lb PM/hr = (lb PM/MMBtu)(MMBtu/hr)

(0.01941 MMBtu/hr)(4.26 MMBtu/hr)

= 0.083

tons PM/yr = (lb PM/hr)(hr/yr)(1 ton/2000 lb)

= (0.083 lb PM/hr)(100 hr/yr)(1 ton/2000 lb)

= 0.0041

HAPs Emissions: (Based on AP-42 Table 3.2-3, 7/00)

ib HAP/hr = (lb HAP/MMBtu)(MMBtu/hr)

= (0.0234 lb/MMBtu)(4.26 MMBtu/hr)

= 0.0997

tons HAP/yr = (lb HAP/hr)(hr/yr)(1 ton/2000 lb)

= (0.10 lb HAP/hr)(100 hr/yr)(1 ton/2000 lb)

= 0.005

TANKS 4.0.9d

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

User Identification:	ECT CC 14 Oily Wester
City:	FGT CS 14 Oily Water Quincy
State:	Florida

Company: Florida Gas Transmission Type of Tank: Vertical Fixed Roof Tank Description:

Tank Dimensions

Identification

Shell Height (ft): 6.00 Diameter (ft): 4.00 Liquid Height (ft): 6.00 Avg. Liquid Height (ft): 3.00 Volume (gallons): 564.02 Turnovers: 0.89 Net Throughput(gal/yr): 500.00 Ν

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: White/White **Shell Condition** Good Roof Color/Shade: White/White **Roof Condition:** Good

Roof Characteristics

Type: Cone

Height (ft) 0.00 Slope (ft/ft) (Cone Roof) 0.06 **Breather Vent Settings**

Vacuum Settings (psig): -0.03 Pressure Settings (psig) 0.03

Meterological Data used in Emissions Calculations: Tallahassee, Florida (Avg Atmospheric Pressure = 14.73 psia)

TANKS 4.0.9d

Emissions Report - Summary Format Liquid Contents of Storage Tank

FGT CS 14 Oily Water - Vertical Fixed Roof Tank Quincy, Florida

Mixture/Component Mo	onth	ily Liquid S perature (c M in.	Surf.	Liquid Bulk Temp (deg F)	r Pressure Min.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations

Lube Oil Ail 69.13 62.98 75.28 67.14 0.0001 0.0000 0.0001 190.0000 190.00 Option 1: VP60 = .00004 VP70 = .00006

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

FGT CS 14 Oily Water - Vertical Fixed Roof Tank Quincy, Florida

			Losses(lbs)	
Components		Working Loss	Breathing Loss	Total Emissions
Lube Oil	•	0.00	0.00	
		A COMPANY OF THE PARTY OF THE P		0.00

Attachment G Fuel Analysis

FTWSCB1.ener			East Cysten, Chromatograpus					01-Aug-2008 14:05:09		
n-Hexanes +	0.0698	0.0706	0.0627	0.0199	0.0058	0.0638	0.0013	0.0453		
Nitrogen	0.5661	0.5581	0.5374	0.4067	0.0616	0.5267	0.0184	0.4515		
Methane	95.5536	95.5834	95.5528	95.9043	96.5431	95.6856	96.6087	95.6529		
Carbon Dioxide	0.9859	0.9896	0.9931	0.7936	0.1266	1.0224	0.0153	0.7481		
Ethane	2.2210	2.2010	2.2452	2.3074	2.6850	2.1642	2.7702	2.4459		
Propane	0.3579	0.3530	0.3637	0.3569	0.4396	0.3325	0.4590	0.4177		
Iso-Butane	0.0806	0.0796	0.0814	0.0710	0.0704	0.0728	0.0702	0.0854		
n-Butane	0.0944	0.0933	0.0947	0.0716	0.0563	0.0757	0.0515	0.0923		
Iso-Pentane	0.0406	0.0411	0.0395	0.0270	0.0076	0.0333	0.0039	0.0356		
n-Pentane	0.0301	0.0304	0.0295	0.0187	0.0038	0.0229	0.0016	0.0253		
Un normalized Totals	100.03		99.91	99.78	100.08		99.85	99.40		
Specific Gravity	0.5869	0.5873	0.5868	0.5831	0.5759		0.5750	0.5850		
BTU / carft.	1030.2		1030.4	1031.8	1043.2		1045.2	1035.1		
	OR/16		DROT		CRUX	GLAB	CRBB	CR21		
Dew Point an	Dew Point and H2S Recall West Coordatographs				East On Line Chromatographs					

Attachment H List of Exempt Emissions Units

List of Exempt Emissions Units

- 1. 500 gallon Oily Water Storage Tank, vertical, 4' x 6'
- 2. Fugitive emissions from component leaks