Florida Gas Transmission Company

A Southern Union/El Paso Affiliate

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November 26, 2008

UPS Overnight

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BUREAU OF AIR REGULATION

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

Reference:

New Facility 0550060

Compressor Station No. 29, Highlands County

Project No.: 0550060-001-

Dear Ms. Vielhauer:

Subject: Application for Air Construction Permit

Florida Gas Transmission Company (FGT) is proposing to construct a new natural gas pipeline compressor station to be located in Highlands County near Okeechobee. The facility will be identified as Compressor Station No. 29 and will consist of two new 7,800 hp natural gas fired compressor turbines, two 454 natural gas fired emergency generators and supporting equipment.

After construction, the facility will be a minor source under both New Source Review and Title V definitions; therefore, a state only construction permit is required.

Enclosed is an Application with supporting documentation for an Air Construction Permit for the proposed new facility. A processing fee of \$2250.00 is attached.

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. 29

Application for Air Permit to Construct

Florida Gas Transmission Company, LLC Phase VIII Expansion Project Okeechobee Compressor Station No. 29 Okeechobee, Highlands County, Florida New Facility

November 2008

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1.0 INTRODUCTION

Florida Gas Transmission Company (FGT) is proposing to construct a new natural gas pipeline facility near Okeechobee, in Highlands County, Florida (Compressor Station No. 29). 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.

The new Compressor Station No. 29 will be located approximately 13 miles west of U.S. Highway 441 on State Highway 70. Figure 1-1 shows the location of the existing compressor station.

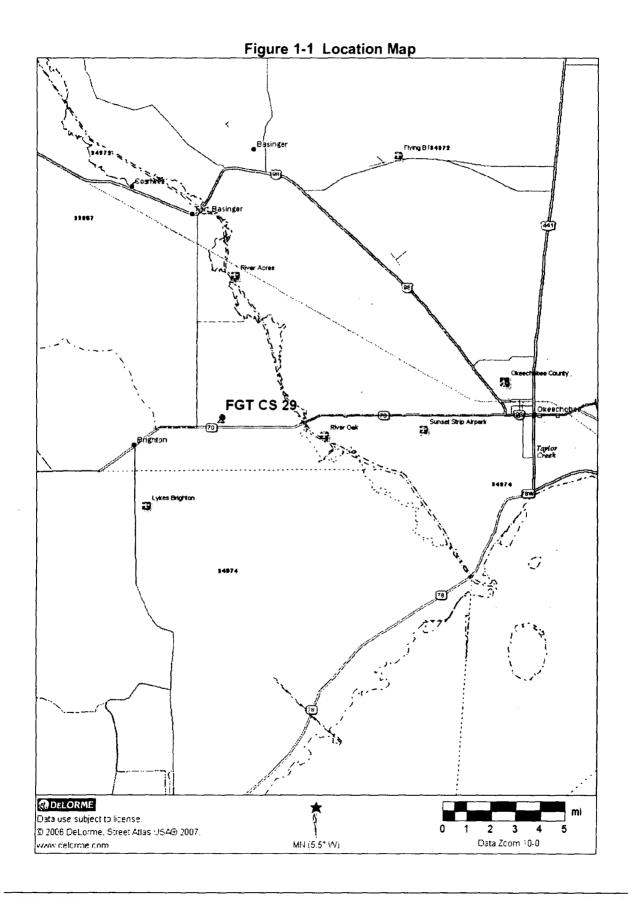
The proposed new facility will consist of two new 7,800 hp natural gas fired compressor turbines, two 454 natural gas fired emergency generators and supporting equipment. The turbines will be Solar Taurus 60-7800S units and will be used solely for transporting natural gas by pipeline for distribution to markets in Florida.

Additionally, FGT is also proposing to install two 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 facility would have NO_X potential emissions of 53.2 tpy and CO potential emissions of 64.8 tpy; therefore, this new facility will not constitute a major new source under Prevention of Significant Deterioration (PSD) regulations. A state only construction permit is required.

This narrative contains three additional sections. Descriptions of the proposed engines and 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 a process flow diagram, Attachment C contains Precautions to Prevent Emissions of Unconfined Particulate Matter, Attachment D contains a plot plan of the facility and Attachment E provides vendor information a description of the sampling platform. Attachment F provides emission calculations; Attachment G has a fuel analysis and Attachment H a list of exempt sources.

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2.0 PROJECT DESCRIPTION

A plot plan of FGT's Compressor Station No. 29, showing the location of the plant boundaries, and the location of the new turbines 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 Proposed New Sources

FGT proposes to install two new gas-fired turbines (Compressor Engines 2901 and 2902). The new engines 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 equipped 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.

2.1.1 New Compressor Turbines

The new turbine compressor engines are Solar Titan 60 -78200S turbine compressor units rated at 7,800 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 2-1.

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Table 2-1 Proposed New Turbine (2901 and 2902) Specifications and Stack Parameters

Parameter	Design
Compressor Engine	2901/2902
Туре	Gas Turbine
Manufacturer	Solar
Model	Taurus 60 - 7800S
Net Output (ISO with inlet and	7,277 bhp
exhaust losses of 4.0 inches	
H2O)	
Specific Heat Input (LHV) ^a	8,326 Btu/hp-hr
Specific Heat Input (HHV) ^b	9,220 Btu/hp-hr
Fuel Flow (LHV) ^a	60.59 MM Btu/hr
Fuel Flow (HHV) ^a	67.09 MM Btu/hr
Maximum Fuel Consumption ^c	0.0645 MMscf/hr
Driven Equipment Speed	13,854 rpm
Stack Parameters	
Stack Height	55 ft
Stack Diameter	6 ft
Exhaust Gas Flow	170,003 lb/h
	101,546 acfm
Exhaust Temperature	956 °F
Exhaust Gas Velocity	59.9 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 turbines at ISO conditions with inlet and exhaust losses are presented in Table 2-2. 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 ambient temperature can affect these rates.

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^a Based on vendor provided lower heat rate value (LVH) of 8,326 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).

While producing 7,227 bhp and with gas having HHV of 1040 Btu/scf

Typically, turbine vendors do not provide information on particulate matter (PM), sulfur dioxide (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 2-2 Proposed New Turbine (2901/2902) Compressor Engine Emissions

Pollutant	Emission Factor	Reference	lb/hr	TPY
Nitrogen Oxides ^a	6.04 lb/hr	Manufacturer Data	6.04	26.46
Carbon Monoxide ^a	7.35 lb/hr	Manufacturer Data	7.35	32.19
Volatile Organic ^{a,b} Compounds	0.21 lb/hr	Manufacturer Data	0.21	0.92
Particulate Matter ^c	0.0066 lb/MMBtu	AP-42, Table 3.1-2a	0.44	1.94
Sulfur Dioxide ^c	10 grains/100 scf	FERC Limit	1.84	8.07
HAPS °	0.001027 lb/MMBtu	AP-42, Table 3.1-2a	0.07	0.30

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

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^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 2-3 and emissions are presented in Table 2-4.

2.2.3 Support Equipment

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

- Two compressor buildings
- An auxiliary building
- A control building

The locations of the structures are shown on the facility plot plan contained in Attachment D. The compressor buildings, each housing a new turbine, have approximate dimensions of 52 feet wide by 64 feet long by 26 feet high. The approximate dimensions of the auxiliary building will be 32 feet wide by 96 feet long by 14 feet high and 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 Tanks

Two new storage tanks will be installed at Compressor Station No. 29. The tanks are a 500 gallon oily water storage tank and a 100 barrel condensate storage tank. Specifications for these tanks are listed in Table 2-5. Emissions were calculated with the U.S EPA's (USEPA) Tank 4.0 D 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. These emission units are exempt under Rule 62-210.300(3)(b), F.A.C.

2.2.5 Fugitive Emissions

Potential new emissions from Compressor Station No. 29 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 2-6 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.

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Table 2-3 Proposed Emergency Generator Engines Specifications and Stack Parameters

Parameter	Design
Compressor Engine	Gen01/Gen02
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. =

brake horsepower. bhp =

British thermal units per hour. =

Btu/hr °F degrees Fahrenheit. =

ft feet.

ft/sec Lb/hr =

feet per second.
pound per hour.
revolutions per minute.
standard cubic feet per hour rpm scf/h

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

Table 2-4 Emissions from Each Proposed Generator Engine

	Uncontrolled				Controll	ed	
Pollutant	Emission Factor	lb/hr ^a	TPY a.b	Emission Factor	lb/hr*	TPY a, b	Reference
Nitrogen 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	0.20	NSPS
Volatile Organic Compounds**	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

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 yearc. assumed VOC 10% of UHC/THC

Table 2-5 New Storage Tanks for Compressor Station No. 29

Tank Name	Condensate Tank	Oily Water Tank
Type of Tank	Vertical, Cone Roof	Vertical, Cone Roof
Contents	Hydrocarbon Liquids	Drain water from washings; oily water
Dimensions	8' dia x 12' high	4' dia x 6' high
Capacity	100 Barrels	500 Gallons
Paint Color	White	White
Maximum Annual Throughput	50 Gallons	100 Barrel
Pressurized	No	No
VOC Emissions (tpy)	0.01	<0.001

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Table 2-6 VOC Fugitive Emission Calculations and Summary

Component	Service	Component	Emissions *	NM/NE	Emissions
		Count	Factor (ton/yr)	Fraction	(ton/yr)
Valves	Gas	86	0.0434606	0.05	0.1869
Connector	Gas	0	0.0019316	0.05	0.0000
Flanges	Gas	204	0.0037666	0.05	0.0384
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:	0.2253

^{*&#}x27;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 2-7. The calculations used to estimate these emissions are presented in Attachment D.

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Table 2-7 Potential Annual Emissions (tpy) Summary

SOURCE ID	DESCRIPTION	NO _x	со	VOC ^a	SO ₂	PM	HAPs
EXISTING FACILITY							
	None	0.0	0.0	0.0	0.0	0.0	0.0
EXISTING	ANNUAL POTENTIALTOTALS:	0.0	0.0	0.0	0.0	0.0	0.0

	PROPOSED MODIFIED FACILITY								
2901	7,800 bhp Turbine Engine- New	26.5	32.2	0.9	8.1	1.9	0.3		
2903	7,800 bhp Turbine Engine - New	26.5	32.2	0.9	8.1	1.9	0.3		
GEN01	454 bhp Recip. Engine – New b	0.1	0.2	0.0	0.0	0.0	0.0		
GEN02	454 bhp Recip. Engine – New b	0.1	0.2	0.0	0.0	0.0	0.0		
	Other Sources: c	0.0	0.0	0.2	0.0	0.0	0.0		
PROPOSED ANNUAL POTENTIAL TOTALS:		53.2	64.8	2	16.2	3.8	0.6		

NET CHANGES IN POTENTIAL EMISSIONS:	53.2	64.8	2	16.2	3.8	0.6

- (a) VOC = Non-methane/non-ethane hydrocarbons
 (b) Based on 100 hrs/yr
 (c) Other Sources Includes ancillary equipment, storage tanks and equipment leaks

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. 29.

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. 29.

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. Highlands 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.

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

POLLUTANT	AVERAGING PERIOD	EPA ST PRIMARY	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
СО	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 Highlands 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.

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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			
VOC = Volatile Organic Compounds 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. 29 is not one of the 28 named source categories, and the proposed new emissions are not major in themselves, it is not considered a major source or major new source; therefore, the compressor station is not subject to PSD preconstruction review.

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. 29 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. Additionally, Compressor Station No. 29 is not a major source; 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. 29 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 SO₂ 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 4.03 lb/hr.

Table 3-3 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 25 ppmv), and for SO_2 of 4.03 lb/nr (estimated for this turbine to be 1.84 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 NO_X, CO and VOC established in Table 1 of Subpart JJJJ. The manufacturer of the proposed generator engines has not provided final emissions data. FGT will only install units that will comply with the applicable standards. FGT will also be required to comply with all recordkeeping and monitoring requirements of this regulation.

Table 3-4 summarizes the NSPS applicability for the proposed gas-fired emergency generator engines.

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

	NSPS Regulations	Fuel	Pollutant	Heat Input Applicability	Equipment Design Maximum	NSPS Emission Limits	Equipment Emissions
T	60.4320(a)	Gas	NO _x	>50 MM Btu/hr	67 MM Btu/hr	25 ppm _v	25 ppm _v
	60.4330(a)(2)	Gas	SO ₂	>50 MM Btu/hr	67 MM Btu/hr	4.03 lb/hr	1.84 lb/hr

Table 3-4 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	2.00
60.4230 Table 1	Gas	CO	100 hp and higher	4.0	4.00
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 29 is not a major source of HAPS and is, therefore, not subject to any applicable NESHAPS.

3.1.6 Applicability of Title V

In 1990, Congress established an operating permit program under Title V of the Clean Air Act Amendments. This operating permit program streamlines the way federal, state, tribal, and local authorities regulate air pollution by consolidating all air pollution control requirements into a single, comprehensive "operating permit" that covers all aspects of a source's year-to-year air pollution activities.

All "major" stationary sources emitting certain air pollutants are required to obtain operating permits. Generally, major sources include those stationary facilities that emit 100 tons or more per year of a regulated air pollutant. Smaller sources are considered "major" in areas that are not meeting the national air quality standards for a particular pollutant. Also, sources of toxic air pollutants (i.e., any source that emits more than 10 tons per year of an individual toxic air pollutant or more than 25 tons per year of any combination of toxic air pollutants) are considered major.

Currently CS 29 will not be a major source under Title V definitions; therefore, CS 29 will not be required to obtain a Title V operating permit.

Attachment A

DEP Forms

3.2 Florida state air Quality Regulations

Compressor Station No. 29 is currently operating under Permit No.0041004-014-OA 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. 29 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. After the modification, FGT will be required to modify the state operating permit to incorporate the new sources.

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.

AOMos LLC Page 18

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.



Department of Environmental ProtectionRECEIVED

Division of Air Resource Management

NOV 26 2008

APPLICATION FOR AIR PERMIT - LONG FORM

1. 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:

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

To ensure accuracy, please see form instructions.

Identification of Facility

1.	Facility Owner/Company Name: Florida Gas Transmission Company, LLC				
2.	Site Name: Compressor Station No. 29				
3.	Facility Identification Number: unknown — 055000				
4.	Facility Location				
	Street Address or Other Locator: 13 miles west of US 441 on SH 70				
	City: Okeechobee County: Highlands Zip Code: 34974				
5.	Relocatable Facility? 6. Existing Title V Permitted Facility?				
	☐ Yes ☒ No				
<u>Ap</u>	plication 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 State: 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: -06-08 3. PSD Number (if applicable):				
2.	Project Number(s): 0550060 -001 AC 4. Siting Number (if applicable):				

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 construct a new compressor station and install two new 7,800 bhp gas-fire compressor turbines 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
001	Turbine Compressor Engine No. 2901, 7,800 bhp ISO, Natural Gas Fired	ACID	\$2000
002	Turbine Compressor Engine No. 2902, 7,800 bhp ISO, Natural Gas Fired	ACID	Similar Unit \$0
003	Emergency Generator Engine No. GEN05, 454 bhp, 4-stroke, rich-burn natural gas fired	AC1D	\$250
003	Emergency Generator Engine No. GEN04, 454 bhp, 4-stroke, rich-burn natural gas fired	AC1D	Similar Unit \$0

Application Processing Fee	
Check one: Attached - Amount: \$2,250.00	Not Applicable

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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.

Signaryte en behalf David Shellhouse Date

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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 Officia	l Name: NA				
2.	 Application Responsible Official Qualification (Check one or more of the following options, as applicable): 					
	For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.					
	For a partnership or sole propri	etorship, a general partner o	r the proprietor, respectively.			
	For a municipality, county, state officer or ranking elected offici	-	gency, either a principal executive			
	The designated representative a	nt an Acid Rain source, CAI	R source, or Hg Budget source.			
3.	Application Responsible Officia Organization/Firm:	l Mailing Address				
	Street Address:					
	City:	State:	Zip Code:			
4.	Application Responsible Officia Telephone: () - ext.	l Telephone Numbers Fax: () -				
5.	Application Responsible Officia	l E-mail Address:				
6.	Application Responsible Officia	l Certification:				
	Signature		ate			

Professional Engineer Certification

1.	Professional Engineer Name: Kevin J. McGlynn			
	Registration Number: 50908			
2.	Professional Engineer Mailing Address.			
	Organization/Firm: Trow Engineering consultants, Inc.			
	Street Address: 1200 Metropolitan Blvd. Ste. 200			
	City: Tallahassee State: FL Zip Code: 32308			
3.	Professional Engineer Telephone Numbers.			
	Telephone: (850) 385 - 5441 ext. 314 Fax: (850) 385 - 5523			
4.	Professional Engineer E-mail Address: Kevin.mcglynn@trow.com			
5.	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.			
iii	(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 \boxtimes , 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 head). If 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 proteins contained in such permit. Stenature Date			
^	(seat)			

^{*} Attach any exception to certification statement.

II. FACILITY INFORMATION A. GENERAL FACILITY INFORMATION

<u>F</u> :	Facility Location and Type						
1.	Zone 17 East (km) 494.3 North (km) 3012.4		2. Facility Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)				
3.	Governmental Facility Code:	4. Facility Status Code: C	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4922			
	7. Facility Commo	n No. 29 will be a new i	natural gas pipeline comp	pressor station with two			
Fa	cility Contact						
1.		me: : Unknown at this	stime				
2.	Facility Contact Ma Organization/Firm:	Unknown at this	time				
	Street Address	S :					
-	City:		ate: FL Zip	Code: 34974			
	Facility Contact Telephone Numbers: Telephone: (***) ***- **** ext. Fax: (***) ***- ****						
4.	4. Facility Contact E-mail Address: ***********						
Co	Facility Primary Responsible Official Complete if an "application responsible official" is identified in Section I that is not the facility "primary responsible official."						
1.	. Facility Primary Responsible Official Name: NA						
2.	Facility Primary Responsible Official Mailing Address Organization/Firm:						
	Street Address:						
	City:			Code:			
3.	y start of the art of						
	Telephone: ()	- ext. I	_ ,				
4.	4. Facility Primary Responsible Official E-mail Address:						

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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 Hazardous Air Pollutants (HAPs)
5.	Synthetic Minor Source of Air Pollutants, Other than HAPs
6.	Major Source of Hazardous Air Pollutants (HAPs)
7.	Synthetic Minor Source of HAPs
8.	One or More Emissions Units Subject to NSPS (40 CFR Part 60)
9.	One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)
10.	One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)
11.	Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))
12. Faci	ility Regulatory Classifications Comment:
Faci	ility will be a major source of Air Pollutants after these modifications.
New 60, 8	v gas-fired compressor turbines (No. 2901/2902) are subject to (NSPS) 40 CFR Part Subpart KKKK
New to (N	y gas-fired reciprocating internal combustion emergency generator engines are subject NSPS) 40 CFR 60 Subpart JJJJ.

List of Pollutants Emitted by Facility

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

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

2. Facility- Wide Cap [Y or N]?	3. Emissions Unit ID's Under Cap	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
(an units)	(If not all units)			<u> </u>
	i k 			
	 	<u> </u>		
	- · <u>- ·- ·- ·- ·- ·- ·- ·- ·- ·-</u>			
de or Multi-Unit F	Emissions Cap Com	iment:		<u></u>
	Wide Cap [Y or N]? (all units)	Wide Cap [Y or N]? (all units) Under Cap (if not all units)	Wide Cap Unit ID's Cap [Y or N]? Under Cap (lb/hr)	Wide Cap [Y or N]? (all units) Under Cap (if not all units) Cap (lb/hr) (ton/yr)

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C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	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. D 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: <u>Attach. B</u> 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:				
Additional Requirements for Air Construction Permit Applications					
1.	Area Map Showing Facility Location: Attached, Document ID: Narr. Fig. 1-1 Not Applicable (existing permitted facility)				
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): Attached, Document ID: <u>Narr.Sect 2.0</u>				
3.	Rule Applicability Analysis: Attached, Document ID: Narr. Sect 3.0				
4.	List of Exempt Emissions Units: Attached, Document ID: <u>Attach. H</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				
	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.): Attached, Document ID: Not Applicable				

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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)
_ <u>A</u>	dditional 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

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 [4]

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 unit addressed in this Emissions Unit Information Section is an 					
	unregulated er		emissions om morma	ion section is an		
En	nissions Unit Descr	ription and Status				
1.	Type of Emissions	S Unit Addressed in this	Section: (Check one)			
	single process	or production unit, or a	tion addresses, as a single ctivity, which produces definable emission point	one or more air		
	group of proce	ess or production units a	tion addresses, as a single and activities which has a also produce fugitive e	at least one definable		
				le emissions unit, one or e fugitive emissions only.		
	2. Description of	Emissions Unit Addres	sed in this Section:			
	7,800 bhp (ISO) natural gas fired turbine compressor unit, FGT Engine No. 2901					
3.	·	entification Number: 00				
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 al	ll that apply)			
	Acid Rain Uni	t				
	CAIR Unit					
	Hg Budget Un	it				
9.	Package Unit:					
	Manufacturer: Sol		Model Number:	Taurus 60 - 7800S		
	Generator Namepla	 				
11.	11. Emissions Unit Comment:					
inc	Fuel will be exclusively natural gas from the FGT's gas pipeline. The proposed engine will incorporate dry, low NO _X combustion technology. 7,277 bhp with inlet and exhaust losses of 4.0 inches H2O.					

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Emissions Unit Control Equipment/Method: Control 1 of 1

Emissions Chit Control Equipment/Wethod: Control 1 of 1
1. Control Equipment/Method Description:
The proposed engine will incorporate dry, low NO _X combustion technology.
2 Cartes Davis and Mahad Cada 00
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:
L

Section [1]

of [4]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or I nroughput Rate:	NA
2.	Maximum Production Rate: NA	

- 3. Maximum Heat Input Rate: 67.09 million Btu/hr HHV
- 4. Maximum Incineration Rate: pounds/hr NA

tons/day

5. Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

6. Operating Capacity/Schedule Comment:

Heat input is 67.09 MM Btu/hr Higher heating value (HHV). This is based on a vendor provided bhp of 7,277 bhp, a specific heat rate of 8,326 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: 2901	Plot Plan or	2. Emission Point	Гуре Code:	
3.	Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:				
	NA				
4.	ID Numbers or Description	ns of Emission Ur	nits with this Emission	n Point in Common:	
	NA				
5.	Discharge Type Code: V	6. Stack Height 55 Feet	::	7. Exit Diameter: 6.0 feet	
8.	Exit Temperature: 956 °F	9. Actual Volum 101,546 acfm	metric Flow Rate:	10. Water Vapor: NA %	
11.	Maximum Dry Standard Flow Rate: NA dscfm		12. Nonstack Emission Point Height: NA feet		
13.	Emission Point UTM Coo Zone: 17 East (km):	rdinates 494.3	14. Emission Point I Latitude (DD/M	Latitude/Longitude M/SS)	
	North (km)	: 3012.4	Longitude (DD/I	MM/SS)	
15.	Emission Point Comment:				
	None				
			·····		

Section [1]

of [4]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1.	1. Segment Description (Process/Fuel Type):					
	Natural gas fired turbine engine driving a natural gas compressor, operating full time.					
2.	Source Classification Cod 2-02-002-01	e (SCC):	3. SCC Units		n cubic feet burned	
4.	Maximum Hourly Rate: 0.0645	5. Maximum 565	Annual Rate: 5.10	6.	Estimated Annual Activity Factor: NA	
7.	Maximum % Sulfur: NA	8. Maximum	% Ash: IA	9.	Million Btu per SCC Unit: 1040	
10	. Segment Comment:					
	None					
Se	gment Description and Ra	ite: Segment _	of			
1.	Segment Description (Pro-	cess/Fuel Type):				
2.	Source Classification Cod	e (SCC):	3. SCC Units:			
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.	10. Segment Comment:					
L						

Section [1] **of** [4]

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			NS
SO ₂			EL
PM2.5			NS
NO _X	99		EL
СО			NS
PM10			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 Efficiency of Control:			
3. Potential Emissions: 6.04 lb/hour 26.46	4. Synthetically Limited? 5 tons/year Yes No			
to tons/year	(as applicable): NA			
6. Emission Factor: 6.04 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: (6.04 lb/hr)(1 ton/2000 lb)(8760hr/1 yr) = 26.46 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 [1] 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

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units: 25 ppmvd @ 15% O2	4.	Equivalent Allowable Emissions: 6.04 lb/hour 26.46 tons/year
5.	Method of Compliance: Initial performance test		
6.	Allowable Emissions Comment (Description	ofC	Operating Method):
	40 CFR 60.4320(a) limits NOX emissions to	25 į	opmv.
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:
		<u> </u>	lb/hour tons/year
5.	Method of Compliance:		
6.	Allowable Emissions Comment (Description	of C	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	ofC	Operating Method):

POLLUTANT DETAIL INFORMATION
Page | 2 | 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: CO	2. Total Percent Efficiency of Control:			
3. Potential Emissions: 7.35 lb/hour 32.19	4. Synthetically Limited? Utons/year Yes No			
to tons/year	(as applicable): NA			
 Emission Factor: 7.35 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: (7.35 lb/hr)(1 ton/2000 lb)(8760hr/1 yr) = 32.19 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.

Allowable	Emissions	Allowable	Emissions	NA	of
THE STATE OF		T THE WOLL		144 F	\sim ι

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
		<u> </u>	lb/hour tons/year
5.	Method of Compliance:		
6.	Allowable Emissions Comment (Description	of (Operating Method):
All	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:
		<u> </u>	lb/hour tons/year
	Method of Compliance: Allowable Emissions Comment (Description	of (Operating Method):
0.	Anowable Emissions Comment (Description		Speraring Methody.
All	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):

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: VOC	2. Total Percent Effici	ency of Control:
3. Potential Emissions: 0.21 lb/hour 0.92	\ 	hetically Limited? Yes 🔲 No
to tons/year	(as applicable): NA	
6. Emission Factor: 0.21 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 From:	Period: Γο:
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitor	ing Period: 10 years
10. Calculation of Emissions: UHC = 2.11 lb/hr, assume VOC = 10% UHc (0.21 lb/hr)(1 ton/2000 lb)(8760hr/1 yr) = 0.	92 tons/year	
11. Potential, Fugitive, and Actual Emissions Co		
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.

Allowable Emissions Allowable Emissions NA of

_===	Allowable Emissions Allowable Emissions 147							
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:						
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:						
Ì		lb/hour tons/year						
5.	Method of Compliance:	1						
<i>J</i> .	Method of Comphance.							
6.	Allowable Emissions Comment (Description	of Operating Method):						
	or the ward Linesiens comment (L'eserginen et operating ivietnea).							
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.	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. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control:					
3. Potential Emissions: 1.84 lb/hour 8.07	4. Synthetically Limited? Tons/year Yes No					
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 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)(64,500 scf/hr)(1 lb/7000 gr) = 0.92 (0.921 lb S/hr)(2 lb SO2/lb S) = 1.843 lb SO2/hr (1.843 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb) = 8.073	ton/yr					
11. Potential, Fugitive, and Actual Emissions Co	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.

Al	<u>lowabl</u>	e Li	<u>missi</u>	<u>ons</u>	Alk	owa	ble	Em	ission	s <u> </u>	ot_	1
-	ъ .	<u>~ _ </u>	A 11	1.1		•			$\overline{\cdot}$		Ta	_

	Towable Emissions Anomable Emissions 1	01 <u>1</u>						
1.	Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA						
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: 1.84 lb/hour 8.07 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 4.03 lb/hr.							
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):						

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: PM	2. Total Percent Efficiency of Control:				
3. Potential Emissions: 0.44 lb/hour 1.94	4. Synthetically Limited? Yes No				
to tons/year	(as applicable): NA				
6. Emission Factor: 0.0066 lb/MM Btu	7. Emissions Method Code:				
Reference: Table 3.1-2a, AP-42 4/00	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:					
(0.0066 lb/MM Btu)(64.50 MM Btu/hr) = 0. (0.443 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 1.	939 ton/y				
11. Potential, Fugitive, and Actual Emissions Co	omment:				
Based on vendor's heat input data at ISO condit H2O and fuel higher heat value of 1040 Btu/scf	ions with inlet and exhaust losses of 4" of				

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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	Fmissions	NA	of
AHUWAUIC	Limbordio	TAILUWADIC	LIIIISSIVIIS	1117	

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.	Allowable Emissions Comment (Description	of (Operating Method):
Al	lowable Emissions Allowable Emissions	of_	<u> </u>
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

Pollutant Emitted: HAPS	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.07 lb/hour 0.30	4. Synthetically Limited? Utons/year Yes No
to tons/year	(as applicable): NA
6. Emission Factor: 0.001027 lb/MM Btu Reference: AP-42, Table 3.1-2a	7. Emissions Method Code: 3
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: (0.001027 lb/MM Btu)(64.50 MM Btu/hr) = (0.069 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 0.	i
11. Potential, Fugitive, and Actual Emissions Co Based on vendor's heat input data at ISO condit H2O and fuel higher heat value of 1040 Btu/scf	ions with inlet and exhaust losses of 4" of

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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:				
	6. Allowable Emissions Comment (Description of Operating Method):				
Al	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.	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.	5. Method of Compliance:				
6.	Allowable Emissions Comment (Description	of C	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: VE10	2. Basis for Allowable Opacity: Rule Other	
3.	Allowable Opacity: Normal Conditions: 10 % Ex Maximum Period of Excess Opacity Allower	acceptional Conditions: % ed: min/hour	
	3. Method of Compliance: Annual testing with Method 9		
	4. Visible Emissions Comment: Subject to 62-296-320(4)(b) General Visible	e Emissions Standards.	
Vis	sible Emissions Limitation: Visible Emission	ons Limitation of	
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity: Rule Other	
3.	1 2	sceptional Conditions: % ed: min/hour	
4.	Method of Compliance:		
5.	Visible Emissions Comment:		

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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

11		
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:	
L		
<u>Co</u>	ontinuous Monitoring System: Continuous	s Monitor of
1.	Parameter Code:	2. Pollutant(s):
3.	CMS Requirement:	Rule Other
3. 4.	CMS Requirement: Monitor Information	Rule Other
		Rule Other
	Monitor Information	Rule Other Serial Number:
	Monitor Information Manufacturer:	
 4. 5. 	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:
 4. 5. 	Monitor Information Manufacturer: Model Number:	Serial Number:
 4. 5. 	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:
 4. 5. 	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:
 4. 5. 	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:
 4. 5. 	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:
4.5.	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:

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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: 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: 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: 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:
	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

or renewal	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 EESOP only). NA			
The er emissi	 permit or FESOP only.) NA The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. 			
Emissions Un	it Desci	ription and Status		
1. Type of Er	nissions	Unit Addressed in this	s Section: (Check one)	
single j	process	or production unit, or a	ction addresses, as a sing activity, which produces definable emission point	one or more air
group o	of proce	ss or production units a	etion addresses, as a sing and activities which has y also produce fugitive of	at least one definable
			_	le emissions unit, one or e fugitive emissions only.
1. Descrip	tion of	Emissions Unit Addre	ssed in this Section:	
7,800 bhp	(ISO) na	atural gas fired turbine	compressor unit, FGT E	Engine No. 2902
3. Emissions	Unit Ide	entification Number: 0	002	
4. Emissions Status Cod		5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:
C		NA NA	NA	49
8. Federal Pro	gram A	applicability: (Check a	ill that apply)	
Acid R	lain Uni	t		
☐ CAIR	Unit			
Hg Bu	dget Un	it		
_	9. Package Unit: Manufacturer: Solar Model Number: Taurus 60 - 7800S			
10. Generator Nameplate 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.				

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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

1.	Maximum Process or Throughput Rate: NA		
2.	2. Maximum Production Rate: NA		
3.	3. Maximum Heat Input Rate: 67.09 million Btu/hr HHV		
4.	4. Maximum Incineration Rate: pounds/hr NA		
	tons/day		
5.	5. Requested Maximum Operating Schedule:		
	24 hours/day 7 days/week		
	52 weeks/year 8760 hours/year		

6. Operating Capacity/Schedule Comment:

Heat input is 56.09 MM Btu/hr Higher heating value (HHV). This is based on a vendor provided bhp of 7,277 bhp, a specific heat rate of 8,326 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: 2902		2. Emission Point	
3. Descriptions of Emission NA			
4. ID Numbers or Description	ons of Emission Ui	nits with this Emission	n Point in Common:
Discharge Type Code:V	6. Stack Height 55 Feet	:	7. Exit Diameter: 6.0 feet
8. Exit Temperature: 956 °F	101,546 acfn		10. Water Vapor: NA %
 Maximum Dry Standard F NA dscfm 	low Rate:	Nonstack Emissi NA feet	on Point Height:
13. Emission Point UTM Coordinates Zone: 17 East (km): 494.3 North (km): 3012.4		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: None			
·			

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1.	1. Segment Description (Process/Fuel Type):				
	Natural gas fired turbine engine driving a natural gas compressor, operating full time.				
2.	Source Classification Code	e (SCC):	3. SCC Units:		
	2-02-002-01		m	illio	n cubic feet burned
4.	Maximum Hourly Rate: 0.0645	5. Maximum 565	Annual Rate: 5.10	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:				
}	None				
					·
Se	gment Description and Ra	te: Segment	of		
1.	. Segment Description (Process/Fuel Type):				
2.	Source Classification Code	e (SCC):	3. SCC Units:		
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	r: 8. Maximum % Ash: 9. Million Btu per SCC Unit:			
10.	Segment Comment:	<u>L </u>		L	
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			NS
SO ₂			EL
PM2.5			NS
NO _X	99		EL
СО			NS
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: 6.04 lb/hour 26.46	4. Synthetically Limited? Stons/year Yes No		
to tons/year	(as applicable): NA		
6. Emission Factor: 6.04 lb/hr Reference: Vendor data	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		
NA 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	Allowable	Emissions	Lot	f 1

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units:	Allowable Emissions and Units: 4. Equivalent Allowable Emissions:	
İ	25 ppmvd @ 15% O2		6.04 lb/hour 26.46 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.		
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 C	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 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: CO	2. Total Percent Efficiency of Control:	
3. Potential Emissions: 7.35 lb/hour 32.19	4. Synthetically Limited? Yes No	
to tons/year	(as applicable): NA	
6. Emission Factor: 7.35 lb/hr Reference: Vendor data	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:		
(7.35 lb/hr)(1 ton/2000 lb)(8760hr/1 yr) = 32.19 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.

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

Totelliag Estimated Lugitive, and Dasenne d	e Trojected Actual Emissions	
1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.21 lb/hour 0.92	4. Synthetically Limited? 2 tons/year Yes No	
to tons/year	(as applicable): NA	
6. Emission Factor: 0.21 lb/hr	7. Emissions Method Code:	
Reference: Vendor data	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:		
UHC = 2.11 lb/hr, assume VOC = 10% UHC (0.21 lb/hr)(1 ton/2000 lb)(8760hr/1 yr) = 0.92 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:
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
 		of Operating Method):
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:			
SO2	2. Total Percent Efficient	ency of Control:	
3. Potential Emissions:	4. Syntl	netically Limited?	
	7 tons/year Y	'es 🛛 No	
	(as applicable): NA		
to tons/year			
6. Emission Factor: 10 grain/100 sef		7. Emissions	
Reference: FERC limit		Method Code:	
		2	
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:			
· · · · · · · · · · · · · · · · · · ·			
(10 gr S/100 scf)(64,500 scf/hr)(1 lb/7000 gr) = 0.92	1 lb S/hr		
(0.921 lb S/hr)(2 lb SO2/lb S) = 1.843 lb SO2/hr			
(1.843 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb) = 8.073	ton/yr		
		į	
11. Potential, Fugitive, and Actual Emissions Comment:			
Vendor's data based on ISO conditions with inlet and exhaust losses of 4" of H2O.			
- 2212 cases on 100 conditions with finet and exhaust losses of 4 of fize.			

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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.

Al	lowable Emissions Allowable Emissions 1	of <u>1</u>	-		
1.	Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: 1.84 lb/hour 8.07 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 4.03 lb/hr.				
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):				
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

Pollutant Emitted: PM	2. Total Percent Efficie	ency of Control:	
3. Potential Emissions:	· · · · · · · · · · · · · · · · · · ·	netically Limited?	
0.44 lb/hour 1.94	tons/year Y	'es 🛛 No	
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA		
6. Emission Factor: 0.0066 lb/MM Btu		7. Emissions	
Reference: Table 3.1-2a, AP-42 4/00		Method Code:	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:	
NA tons/year	From:	Го:	
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:	
NA tons/year	5 years] 10 years	
10. Calculation of Emissions: (0.0066 lb/MM Btu)(64.50 MM Btu/hr) = 0.443 lb/hr (0.443 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 1.939 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.

Allowable	Emissions	Allowable Emissions	NA o	of

	Thowave Emissions An				
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:				
	6. Allowable Emissions Comment (Description of Operating Method):				
AI	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:	1			
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. 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 Efficiency of Control:		
3. Potential Emissions: 0.07 lb/hour 0.30	4. Synthetically Limited? Utons/year Yes No		
to tons/year	(as applicable): NA		
6. Emission Factor: 0.001027 lb/MM Btu Reference: AP-42, Table 3.1-2a	7. Emissions Method Code: 3		
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: (0.001027 lb/MM Btu)(64.50 MM Btu/hr) = 0.069 lb/hr (0.069 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 0.302 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.

\mathbf{A}	llowable Emissions Allowable Emissions N	VA_ 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:		
6.			
_	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	
6.	Method of Compliance: Allowable Emissions Comment (Description	n of Operating Method):	
Al	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	
5.	Method of Compliance:		
6.	Allowable Emissions Comment (Description	n 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.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: Rule Other
Allowable Opacity: Normal Conditions: 10 % E Maximum Period of Excess Opacity Allow	xceptional Conditions: % yed: min/hour
Method of Compliance: Annual testing with Method 9	
3. Visible Emissions Comment: Subject to 62-296-320(4)(b) General Visib	le Emissions Standards.
Visible Emissions Limitation: Visible Emiss	ions Limitation of
Visible Emissions Subtype:	2. Basis for Allowable Opacity: Rule Other
Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow	xceptional Conditions: % red: min/hour
4. Method of Compliance:	
5. Visible Emissions Comment:	

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

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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: Attached, Document.new.org/
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: 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:
	Previously Submitted, Date:
	Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	Not Applicable ■ Not Applicable 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

or renewal Title V	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	The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit			
\	s unit addressed in this E	Emissions Unit Informat	ion Section is an	
unregulated e	missions unit.			
Emissions Unit Desc	ription and Status			
1. Type of Emissions	s Unit Addressed in this	Section: (Check one)		
single process pollutants and	is Unit Information Section or production unit, or action which has at least one d	ctivity, which produces efinable emission point	one or more air (stack or vent).	
group of proce	es Unit Information Sections or production units are (stack or vent) but may	nd activities which has a	at 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:		
	as fired, spark ignition, 4 engine, FGT Engine No.		rnal combustion	
3. Emissions Unit Ide	entification Number: 00)3		
4. Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit	
Status Code:	Construction	Date:	Major Group	
C	Date:	NA	SIC Code:	
8. Federal Program A	Applicability: (Check all	l that apply)	1	
Acid Rain Uni	it			
CAIR Unit				
Hg Budget Un	ıit			
9. Package Unit:	9. Package Unit:			
Manufacturer: Generac Model Number: SG300				
10. Generator Nameplate Rating: 0.3 MW				
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:
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:
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:	
Schedule is based on USEPA defined emergency generator usage of maintenance and testing (40 CFR 60.4243(d)). This does not include:	of 100 hours per year for de 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: GEN01	Plot Plan or	2. Emission Point	Гуре Code: I	
3.	Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:				
	NA				
4.	ID Numbers or Descriptio	ns of Emission Ur	nits with this Emission	1 Point in Common:	
	NA				
5.	Discharge Type Code: V	6. Stack Height 7.0 Feet	:	7. Exit Diameter: 0.33 feet	
8.	Exit Temperature: 9. Actual Volum 1490 °F 4335 acfm		metric Flow Rate:	10. Water Vapor: NA %	
11.	Maximum Dry Standard F NA dscfm	low Rate:	12. Nonstack Emissi NA feet	on Point Height:	
13.	Emission Point UTM Coo Zone: 17 East (km):	rdinates 494.3	14. Emission Point I Latitude (DD/M	Latitude/Longitude M/SS)	
	North (km)	: 3012.4	Longitude (DD/I	MM/SS)	
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 Code 2-02-002-53	e (SCC):	3. SCC Units:		n cubic feet burned			
4.	Maximum Hourly Rate: 0.0041	5. Maximum 2		6.	Estimated Annual Activity Factor: NA			
7.	Maximum % Sulfur: NA	8. Maximum 9	% Ash: A	9.	Million Btu per SCC Unit: 1040			
10.	Segment Comment:							
	Annual usage based on 10	0 hours per year	operation.					
Se.	gment Description and Ra	ite: Segment						
1.								
2	Course Classification Cod	· (CCC):	3. SCC Units:					
2.	Source Classification Code	e (SCC):	3. SCC Units:					
4.	Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6.	Estimated Annual Activity Factor:			
7.	. Maximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per S			Million Btu per SCC Unit:				
10.	Segment Comment:			<u> </u>				

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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	203		EL
SO ₂			NS
PM			NS
NO _X	203		EL
СО	203		EL
PM ₁₀			NS
НАР			NS

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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: 5.7			
	4. Synthetically Limited? Utons/year Yes No			
to tons/year	(as applicable): NA			
6. Emission Factor: 2.00 g/hp-hr at 5.7% cont 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: ((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 Co	omment:			
Calculations based on emergency generator usage 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 1 of 1

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units: 2.00 g/hp-hr.	4.	Equivalent Allowable Emissions: 2.00 lb/hour 0.10 tons/year
5.	Method of Compliance: Monitor hours of operation	1	
6.	Allowable Emissions Comment (Description	of	Operating Method):
	60.4230 Table 1 limits NOX emissions to 2 g	/hhp	o-hr.
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:
5	Method of Compliance:		lb/hour tons/year
٥.	memod of Compitative.		
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: CO	2. Total Percent Efficie 96.6	, , , , , , , , , , , , , , , , , , ,		
3. Potential Emissions: 4.0 lb/hour 0.40	1 1 2			
to tons/year	(as applicable): NA			
6. Emission Factor: 4.0 g/hp-hr at 96.6% conti 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:	Period: o:		
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitori 5 years	ing Period: 10 years		
10. Calculation of Emissions: (4.00 g/hp-hr)(454 bhp)(1 lb/454 g) = 4.00 lb/hr (4.00 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.40 ton/yr				
11. Potential, Fugitive, and Actual Emissions Co	omment:			
Calculations based on emergency generator usage efficiency.	ge of 100 hours per year a	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.

Al	lowable 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: 4.00 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/h	hp-l	ır.
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):
<u></u>			
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:	2 T I D TOTAL			
VOC	2. Total Percent Efficiency of Control:			
· · · · · · · · · · · · · · · · · · ·	0			
3. Potential Emissions:	4. Synth	netically Limited?		
		es 🖄 No		
	(as applicable): NA			
to tons/year				
6. Emission Factor: 2.91 g/hp-hr THC		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: 7	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:				
10. Calculation of Emissions: Assume VOC 10% of THC = 0.29 g/hp-hr (0.29 g/hp-hr)(454 bhp)(1 lb/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 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	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.	Equivalent Allowable Emissions:	
	0.29 g/hhp-hr.		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 Himits VOC emissions to 1 g/hhp-hr.			
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	101	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: SO2	2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.117 lb/hour 0.006	4. Synthetically Limited? Stons/year Yes No	
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA	
6. Emission Factor: 10 grains / 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 Period: From: To:	
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitoring Period: 5 years 10 years	
NA tons/year		
	11. Potential, Fugitive, and Actual Emissions Comment:	
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 c	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:			
	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:		
ļ		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: PM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.083 lb/hour 0.004	4. Synthetically Limited? Yes No
to tons/year	(as applicable): NA
6. Emission Factor: 0.01941 lb/MM Btu Reference: Table 3.2-3, AP-42 7/00	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
NIA Association	
11. Potential, Fugitive, and Actual Emissions Co	omment:
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.

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:	
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:	<u> </u>
6.	Allowable Emissions Comment (Description	of Operating Method):
<u> </u>		
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 Efficie	ency of Control:
3. Potential Emissions:	4. Synth	netically Limited?
0.10 lb/hour 0.005	(_	es No
5. Range of Estimated Fugitive Emissions	(as applicable): NA	
to tons/year		
6. Emission Factor: 0.0234 lb/MM Btu		7. Emissions
		Method Code:
Reference: AP-42, Table 3.2-3		3
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: (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 Co	omment:	
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 NA of

	ilowable Emissions Allowable Emissions N	<u>IA</u> 01		
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:			
6.	(2 cser.pc			
A	llowable Emissions Allowable Emissions	. ot		
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.	Method of Compliance: Allowable Emissions Comment (Description			
3 .	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

1			
١.,	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
		Rule	Other
3.	Allowable Opacity:		
٠.	1 3	xceptional Conditions:	n/
		xceptional Conditions.	%
<u> </u>	Maximum Period of Excess Opacity Allow	ed:	min/hour
	2. Method of Compliance:		
	3. Visible Emissions Comment:		
<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ions Limitation of	
	Visible Emissions Subtype:	2. Basis for Allowable	Onacity:
	viole zimbololio ouctype.	Rule	Other
	44 11 0 1	L Kuic	U Otilei
,	Allowable (Importur		
٥.	Allowable Opacity:		
3.	Normal Conditions: % Ex	cceptional Conditions:	%
3.	and the second s	cceptional Conditions: ed:	% min/hour
	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe	cceptional Conditions: ed:	· ·
	Normal Conditions: % Ex	cceptional Conditions:	· ·
	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe	sceptional Conditions: ed:	· ·
4.	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe Method of Compliance:	sceptional Conditions: ed:	
4.	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe	sceptional Conditions: ed:	
4.	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe Method of Compliance:	sceptional Conditions: ed:	
4.	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe Method of Compliance:	sceptional Conditions: ed:	
4.	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe Method of Compliance:	sceptional Conditions: ed:	
4.	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe Method of Compliance:	sceptional Conditions: ed:	· ·
4.	Normal Conditions: % Ex Maximum Period of Excess Opacity Allowe Method of Compliance:	sceptional Conditions: ed:	

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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

	Commuous	
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:	
Co	entinuous Monitoring System: Continuous	Monitor of
1.	Parameter Code:	
1.		2. Pollutant(s):
3.	Parameter Code: CMS Requirement: Monitor Information	2. Pollutant(s):
3.	Parameter Code: CMS Requirement:	2. Pollutant(s):
3.	Parameter Code: CMS Requirement: Monitor Information	2. Pollutant(s):
3.	Parameter Code: CMS Requirement: Monitor Information Manufacturer:	2. Pollutant(s): Rule Other
3. 4.	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: Installation Date:	2. Pollutant(s): Rule Other Serial Number:
3. 4.	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number:	2. Pollutant(s): Rule Other Serial Number:
3. 4.	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: Installation Date:	2. Pollutant(s): Rule Other Serial Number:
3. 4.	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: Installation Date:	2. Pollutant(s): Rule Other Serial Number:
3. 4.	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: Installation Date:	2. Pollutant(s): Rule Other Serial Number:
3. 4.	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: Installation Date:	2. Pollutant(s): Rule Other Serial Number:

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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: Attached, Document ID: Attached, Document.nih.gov/ 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: <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	· · · · · · · · · · · · · · · · · · ·
	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 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
1	• •

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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: <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.				
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.				
1				

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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.					
1		Emissions Unit Informa	tion Section is an		
unregulated e	missions unit.				
Emissions Unit Desc					
1. Type of Emission	s Unit Addressed in thi	s Section: (Check one)			
This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).					
group of proce	This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.				
more process	or production units and	activities which produce	le emissions unit, one or e fugitive emissions only.		
Description of	Emissions Unit Addre	ssed in this Section:			
454 bhp natural gas fired, spark ignition, 4-stroke, rich-burn, internal combustion emergency generator engine, FGT Engine No. GEN02					
	entification Number: (004			
4. Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit		
Status Code:	Construction	Date:	Major Group		
С	Date: NA	NA	SIC Code:		
8. Federal Program A	Applicability: (Check a	ıll that apply)			
Acid Rain Un	it				
CAIR Unit					
Hg Budget Ur	it				
9. Package Unit:					
Manufacturer: Ge	nerac	Model Number:	SG300		
10. Generator Nameplate Rating: 0.3 MW					
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:		
2.	Control Device or Method Code:		
<u> </u>			
	missions Unit Control Equipment/Method: Control of		
1.	Control Equipment/Method Description:		
2.	Control Device or Method Code:		
Er	nissions Unit Control Equipment/Method: Control of		
1.	Control Equipment/Method Description:		
2.	Control Device or Method Code:		
	nissions Unit Control Equipment/Method: Control of		
1.	Control Equipment/Method Description:		
	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

] I. N	faximum Process or Throughput Rate: NA	
2. N	Saximum Production Rate: NA	
3. N	laximum Heat Input Rate: 4.26 million Btu/hr	
4. N	laximum Incineration Rate: pounds/hr NA	
!	tons/day	
5. R	equested Maximum Operating Schedule:	
	hours/day	days/week
	weeks/year	100 hours/year
6. O	perating Capacity/Schedule Comment:	
Schec maint	lule is based on USEPA defined emergency generator usage of enance and testing (40 CFR 60.4243(d)). This does not include	100 hours per year for e 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: GEN02	Plot Plan or	2. Emission Point	Гуре Code: 1	
3.	B. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:				
	NA				
4.	ID Numbers or Descriptio	ns of Emission U	nits with this Emission	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	. Maximum Dry Standard F NA dscfm	low Rate:	12. Nonstack Emissi NA feet	ion Point Height:	
13	13. Emission Point UTM Coordinates Zone: 17 East (km): 494.3		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)		
	North (km): 3012.4		Longitude (DD/MM/SS)		
15. Emission Point Comment:					

EMISSIONS UNIT INFORMATION

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

	•			
1. Segment Description (Pro	. Segment Description (Process/Fuel Type):			
Natural gas fired 4-stroke, rich-burn engine driving an emergency generator.				
2. Source Classification Code (SCC): 2-02-002-53		3. SCC Units: million 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 % Ash: NA		9. Million Btu per SCC Unit: 1040	
10. Segment Comment:				
Annual usage based on 10	00 hours per year	operation.		

Segment Description and Rate: Segment of

200	Hent Description who have				
1. \$	Segment Description (Proc	cess/Fuel Type):			
2. 5	Source Classification Cod	e (SCC):	3. SCC Units:		
4. 1	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity Factor:
7. 1	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	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

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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: NOX	2. Total Percent Efficients 5.7	ency of Control:	
3. Potential Emissions: 2.00 lb/hour 0.20		netically Limited? 'es \int No	
5. Range of Estimated Fugitive Emissions (as applicable): NA to tons/year			
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:	Period: Γο:	
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 usage 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	of 1	1 0	Emissions	owable	Α	Emissions	le	Allowable
--	------	-----	------------------	--------	---	------------------	----	-----------

<u> </u>	Wable Ellissions 1 Howade Ellissions 1	VI _	<u>-</u>		
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/hhp-hr.				
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):		
<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.	Method of Compliance:				
6.	Allowable Emissions Comment (Description	n 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: CO	2. Total Percent Efficience 96.6	ency of Control:		
	tons/year 🔀 Y	netically Limited? 'es No		
to tons/year	(as applicable): NA			
6. Emission Factor: 4.0 g/hp-hr at 96.6% cont 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:	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: 4.00 g/hp-hr)(454 bhp)(1lb/454 g) = 4.00 lb/hr (4.00 lb/hr)(100 hr/yr)(1 ton/2000 lb) = 0.40 ton/yr				
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 Emi	ssions Allowa	ble 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. Equivalent Allowable Emissions:			
	4.00 g/hp-hr.	4.00 lb/hour 0.20 tons/year			
5.	Method of Compliance:	1			
- '	Monitor hours of operation				
<u></u>					
6.	Allowable Emissions Comment (Description	n of Operating Method):			
	60.4230 Table 1 limits CO emissions to 4 g/hhp-hr.				
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.	5. Method of Compliance:				
6.	6. Allowable Emissions Comment (Description of Operating Method):				
		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: VOC	2. Total Percent Efficiency of Control: 0			
3. Potential Emissions: 0.29 lb/hour 0.01	4. Synthetically Limited? Yes No			
to tons/year	(as applicable): NA			
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.				

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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 <u>1</u>			
Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA			
3. Allowable Emissions and Units: 0.29 g/hhp-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	n of Operating Method):			
60.4230 Table 1 limits VOC emissions to 1	g/hhp-hr.			
Allowable Emissions Allowable Emissions				
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):				
Allowable 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. Allowable Emissions Comment (Description	on 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: SO2	2. Total Percent Efficiency of Control:			
3. Potential Emissions: 0.117 lb/hour 0.006	4. Synthetically Limited? Yes No			
5. Range of Estimated Fugitive Emissions (as applicable): NA to tons/year				
6. Emission Factor: 10 grains / 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 Period: From: To:			
9.a. Projected Actual Emissions (if required): NA tons/year	9.b. Projected Monitoring Period: 5 years 10 years			
NA tons/year				
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 Allowable Emissions NA of

All	iowable Emissions Allowable Emissions INA	<u> </u>			
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				
<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.	Method of Compliance:				
	6. Allowable Emissions Comment (Description of Operating Method):				
<u>Al</u>	lowable Emissions Allowable Emissions	ot			
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: PM	2. Total Percent Efficiency of Control:				
3. Potential Emissions: 0.083 lb/hour 0.004	4. Synthetically Limited? Yes No				
to tons/year	(as applicable): NA				
6. Emission Factor: 0.01941 lb/MM Btu Reference: Table 3.2-3, AP-42 7/00	7. Emissions Method Code: 3				
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				
11. Potential, Fugitive, and Actual Emissions Comment:					
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

	OWADIC Elitisatoria					
l.	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			
	Method of Compliance:					
	Allowable Emissions Comment (Description		Operating Method):			
All	owable Emissions Allowable Emissions	of_	<u> </u>			
	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): Allowable Emissions Allowable Emissions of					
	Basis for Allowable Emissions Code:		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	n 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

Totelliar Estimated Tugitive, and Dasenie & Projected Actual Emissions						
Pollutant Emitted: HAPS	2. Total Percent Efficie	ency of Control:				
3. Potential Emissions:	4. Synth	netically Limited?				
,)	es No				
5. Range of Estimated Fugitive Emissions to tons/year	(as applicable): NA					
6. Emission Factor: 0.0234 lb/MM Btu		7. Emissions Method Code:				
Reference: AP-42, Table 3.2-3		3				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:				
NA tons/year	From: 1	To:				
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: (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 Allowable Emissions NA of

<u> </u>	Mowable Ellissions Allowable Ellissions IN	1 01			
1.	Basis for Allowable Emissions Code:	Future Effective Date of Allowable Emissions: NA			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
Ì		lb/hour tons/year			
5.	Method of Compliance:				
	Allowable Emissions Comment (Description				
A	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):				
_ 	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.	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

[4]

VISIOR Elimissions Elimitation.	ions Limitation <u>INA</u> of
Visible Emissions Subtype:	2. Basis for Allowable Opacity:
	Rule Other
3. Allowable Opacity:	
l	2 10 10
	sceptional Conditions: %
Maximum Period of Excess Opacity Allow	ed: min/hour
2. Method of Compliance:	
3. Visible Emissions Comment:	
Visible Emissions Limitation: Visible Emission	ons Limitation of
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
	Rule Other
3. Allowable Opacity:	
	continued Conditions
Maximum Period of Excess Opacity Allower	ceptional Conditions: %
	ed: min/hour
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

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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:	
Co	ontinuous 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

$\overline{}$	
	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: 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: <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:
	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

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

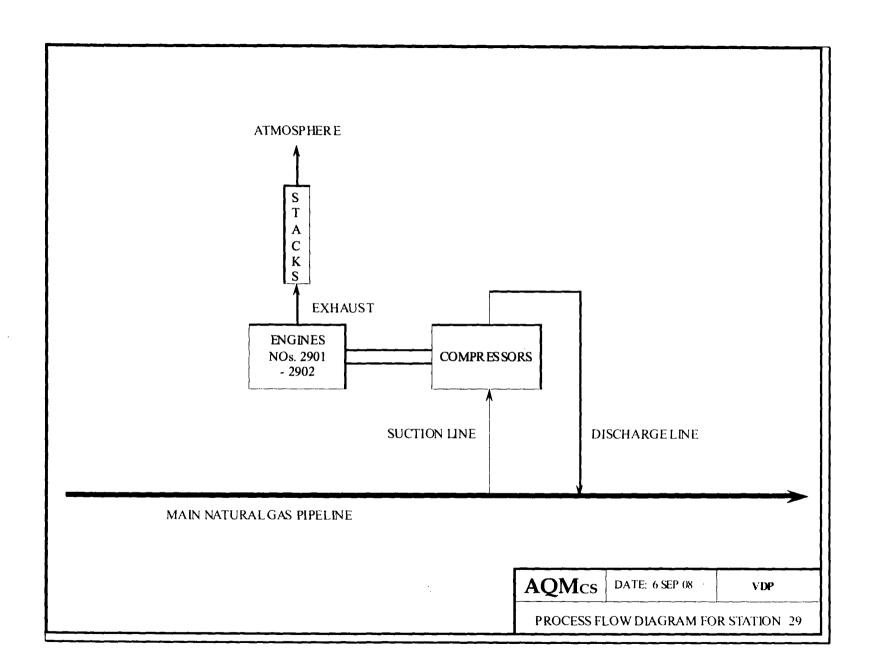
I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

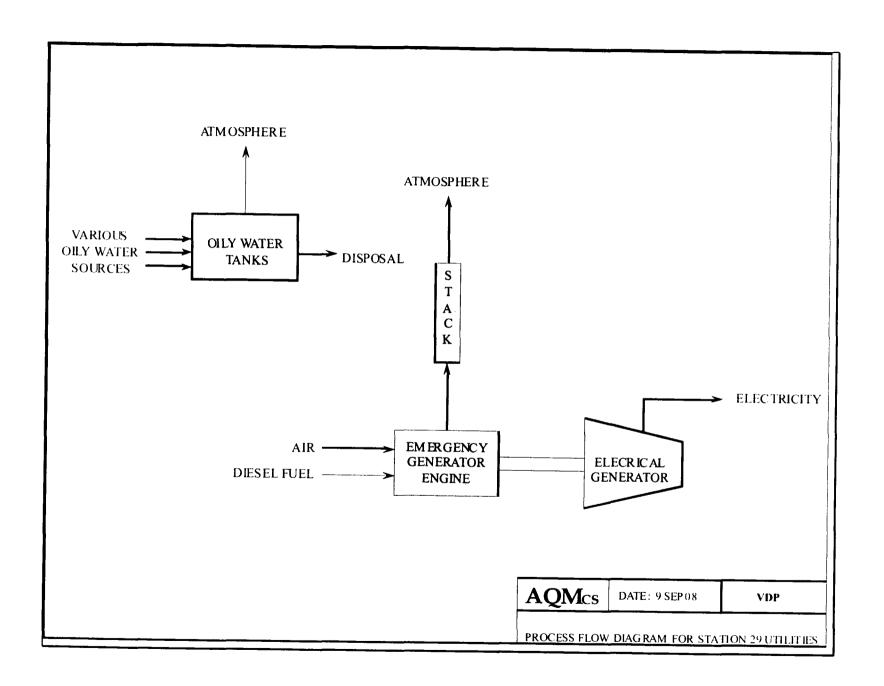
Additional Requirements for Air Construction Permit Applications

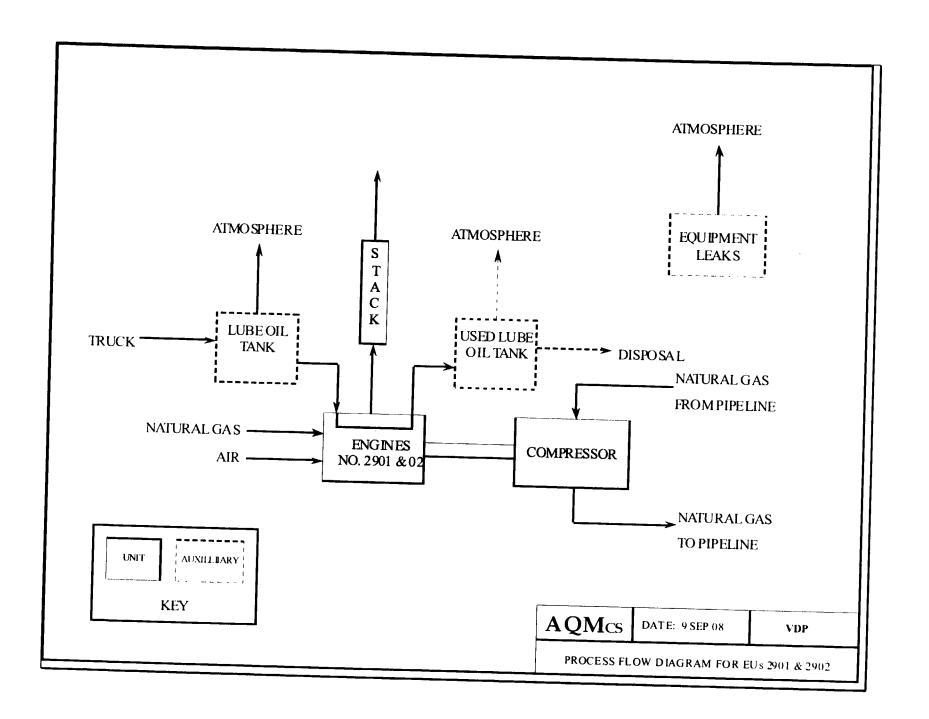
1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7),				
F.A.C.; 40 CFR 63.43(d) and (e)):				
Attached, Document ID: <u>Narr. Sec. 3.0</u> Not Applicable				
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-				
212.500(4)(f), F.A.C.):				
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







	Attachment C
P	
	recautions to Prevent Emissions of Unconfined Particulate Matter
	recautions to Prevent Emissions of Unconfined Particulate Matter
	recautions to Prevent Emissions 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

PLOT PLAN NEEDED

Attachment E

Vendor Information

Solar Model Taurus T-7800S Turbine Generac SG300

Solar Model Taurus T-7800S Turbine

Solar Turbines

PREDICTED EMISSION PERFORMANCE

UHC EMISSIONS

A Caterpillar Company

FĞT		TAURUS 60-7800S	
Jae IC HO08-0024		CS/MD 59F MATCH	
roury Number		Fuel Type SD NATURAL GAS	(Vater Nection NO
ոսունչ James Belmont	Cate Run 10-Jul-08	Engine Emissions Data REV. 0.1	- <u></u>

NOX EMISSIONS

	L			L		J L	
1 7277 Hp 1	00.0% Load	Elev.	0 ft	Rel. Humidity	60.0%	Temperature	59.0 Deg. F
PPMvd at 15% O2	!	25.00		50.00		2!	5.00
ton/yı	· [26,44		32.20		7	0.22
lbm/MMBtu (Fuel LHV)		0.100		0.121		0.	035
(bm/(MW-hr		1.11		1.35).39
(gas turbine shaft pw	r)						
lbni/hr	``	6.04		7.35		2	2.11

COEMISSIONS

Note:

- For short-term emission limits such as lbs/hr., So/ar 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 figuid 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.
- 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.
- 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

FGT Jablic HO08-0024 Pun B; Cate Run James Belmont 10-Jul-08 Engine Fedomance Cata REV. 3.40 REV. 0.7

PREDICTED ENGINE PERFORMANCE

TAURUS 60-7800S	
Fachage Type CS/MD	
59F MATCH	
Fuel Dystem: .	
SD NATURAL GAS	

DATA FOR MINIMUM PERFORMANCE

Elevation	feet	0
Inlet Loss	in H20	4.0
Exhaust Loss	in H20	4.0
Accessory on GP Shaft	HP	14.0
•		
Engine Inlet Temperature	deg F	59.0
Relative Humidity	%	60.0
Driven Equipment Speed	RPM	13854
Specified Load	HP	FULL
Net Output Power	HP	7277
Fuel Flow		
	mmBtu/hr	60.59
Heat Rate	Btu/HP-hr	8326
Therm Eff	%	30.561
Engine Exhaust Flow	lbm/hr	170003
Exhaust Temperature	deg F	956

Fuel Gas Composition (Volume Percent)

Methane (CH4)	92.79
Ethane (C2H6)	4.16
Propane (C3H8)	0.84
N-Butane (C4H10)	0.18
N-Pentane (C5H12)	0.04
Hexane (C6H14)	0.04
Carbon Dioxide (CO2)	0.44
Hydrogen Sulfide (H2S)	0.0001
Nitrogen (N2)	1.51

Fuel Gas Properties

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 Generac 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: 300

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

co	NOx	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 General
 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.

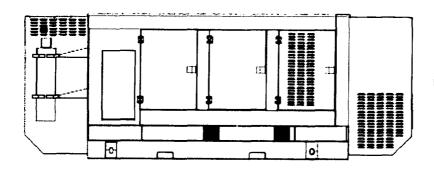
INDUSTRIAL SALES
P.O. BOX 8 • WAUKESHA, WI 53187 • 262-544-4800 • FAX 262-544-4854

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 subsessin "IMPROVING POWER BY DESIGN." But if divernits of their total commitment to component leating, reliability testing, environmental testing, destruction and the testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choree GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- TEST CRITERIA:
 - ✓ PROTOTYPE TESTED
 - V SYSTEM TORSIONAL TESTED
 - ELECTRO-MAGNETIC INTERFERENCE
 - ✓ NEMA MG1 EVALUATION
 - MOTOR STARTING ABILITY
 - Z. SHORT CIRCUIT TESTING
 - ✓ UL2200 COMPLIANCE AVAILABLE

- SOLID-STATE,FREQUENCY COMPENSATED DIGITAL VOLTAGE REGULATION. This state-til-the-er I power maximizing regulation system is standard on all General models. It provides retirized FAST RESPONSE to changing had conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically for que-matching the surge foods to the engine.
- SINGLE SOURCE SERVICE RESPONSE from General's dealer network provides parts and service knowntow for the entire unit, from the engine to the smallest lead trong component, You are never on your own when you own a GENERAD POWER SYSTEM.
- GENERAC TRANSFER SWITCHES, SWITCHGEAR AND ACCESSORIES. Long life and reliability is synonymicus with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transier systems, accessivities, switchgear and controls for total system compatibility.





APPLICATION & ENGINEERING DATA

SG275/SG300

GENERA	IOK SPI	ECIFICAI	IONS

TYPE	Four-pole, revolving field
ROTOR INSULATION	
STATOR INSULATION	
TOTAL HARMONIC DISTORTION	-3.0%
TELEPHONE INFLUENCE FACTOR (TIF)
ALTERNATOR	Self-ventilated and drip-proof.
BEARINGS (PRE-LUBED & SEALED)	2
COUPLING	Flexible Disc
LCIAD CAPACITY (STANEBY)	100%
NOTE: Generator rating and performan	ce in accordance with
1906526-5, 886514 SAE J1349, 190304	8 and DING271 stendards.
EXCITATION SYSTEM	
DEDMANENT MAGNET PHIOT EYETED	Fighteen.rule avoiler /

Magnetically coupled DC current / Mounted cutboard of main bearing / REGULATION...... H100 Crintroller Digital / 3 Phase Sensing, ± 1% regulation ∠

GENERATOR FEATURES

- □ Provolving field heavy duty generator
- ☐ Directly connected to the engine ☐ Operating temperature rise 120 °C above a 40 °C amplient
- ☐ Insulation is Class Hinted at 150 °C rise
- □ All prolotype models have passed firrer phase short droublesting.

CONTROL PANEL FEATURES

- I TWO FOUR LINE LCD DISPLAYS READ:
 - Votage (all phases) - Power factor
- Current (all phases) • kW
- KWAR Engine speed
 - Transfer switch status . Low fuel pressure
- Run hours

Overvotteau

- Service reminders
- Coolant tumperature
- Of pressure
- · Low oil pressure shutdown
- Time and date
 High coolant temperature shutdown • Overspeed
- · Low coolant level
- · Low codiant level
- . Not in auto position (flashing light) • ATS selection
- Exercise speed
- ☐ INTERNAL FUNCTIONS:
 - FT function for attenuior projection from line to neutral and line to line short circuits
 - Emergency stop
 - · Programmable auto crank function

 - 2 wire start for any transfer switch
 Convinualization with the General HTS transfer switch
 - Built-in 7 day exerciser
 - · Adjustable engine speed at exerciser
 - RS232 port for GenUnit* control • RS465 port remote communication
 - · Cardus addressable
 - Governor controller and voltage regulator are built into the master control board
 - Temperature range -40 °C to 70 °C

Resing definitions - Standary Applicable for supplying amergency power for the duration of the usity power busing. No overtead capability is available for this rating. "All ratings in accordance with BESS\$4, 1803064 and ENRET(), Principlin in American Johnson Times, Applicable for supplying secret power in Italy or command say purchased power. Principlin in power is the important power available at wateries before A 19%, however, and explain the important power in 2 hours. (All ratings in accordance with BESS\$4, 1803064, 1935, business of PARS\$71.

ENGINE SPECIFICATIONS

MAKE	GENERAC
MCOEL	
CYUNDERS	
DISPLACEMENT	13.3 Liter (811 ou.in.)
60AE	
STROKE	
COMPRESSION RATIO	10.5:1
INTAKE AIR	Delcoped After Control
NUMBER OF MAIN BEARINGS	
CONNECTING ROOS	6-Carbon Steel
CYUNDER HEAD,	Cast Iron with Overhead Valve
CYLINDER LINERS	
IGNITION	
PISTONS	Heat-Resistant Alicy with 4 Rings
CRANKSHAFT Induction-Hai	

VALVE TRAIN

LIFTER TYPE	So id
INTAKE VALVE MATERIAL	Special Heal Resistant Steel
EXHAUST VALVE MATERIAL	
HARDENED VALVE SEATS	Hight Temp. Alloy Stellite Faced

ENGINE GOVERNOR

ELECTRONIC	Stenderd
FREQUENCY REGULATION, NO LOAD TO	D FULL LOADleochronous
STEADY STATE REGULATION	±0.25%

LUBRICATION SYSTEM

TYPE OF OIL PUMP	Gear Driven
OIL FILTER	
CRANKCASE CAPACITY	27 Liters (7.13 del.)

COOLING SYSTEM

TYPE OF SYSTEM	Pressurized, closed recovery
WITER PUMP	Pre-lubed, self-sealing
TYPE OF FAN	Pusher
NUMBER OF FAN BLADES	
DIAMETER OF FAN	
COOLANT HEATER	

FUEL SYSTEM

FUEL	
D Natural Gas	Standard
CARBURETOR	Down draft
SECONDARY FUEL REGULATOR	Nø1. Gæs
AUTOMATIC FUEL LOCKOFF SOLENOID	Standard
OPERATING FUEL PRESSURE SYSTEMS	10' to 15' H,O

ELECTRICAL SYSTEM

BATTERY CHARGE ALTERNATOR	20 Amps at 24 V
STARTER MOTOR	24 \
RECOMMENDED BATTERY. (2)	- 12 V, 925 CCA, 31
GROUND POLARITY	Negative



SG275/SG300

OPERATING DATA	SG	275	SG300			
GENERATOR OUTPUT VOLTAGE/KW-60Hz	Kilk	Rated ±MP	K.W.	Raied AMP		
120/208V, 3-phase, 0.9 pf NOTE: Consultyour 120/240V, 3-phase, 0.9 pf General teals for	275	864	300	1041		
	275	827	302	9(2		
277/480V, 3-phase, 0.8 pt admirra votages.	275	413	300	451		
600V, 3-phase, 0.9 pf	275	391	300	361		
MOTOR STARTING						
Maximum at 35% instantaneous voltage dip	206/240V	480V	208/240V	480 V		
with standard afternator—60 Hz	800 KVA	1060 KVA	800 KVA	1060 KVA		
Afth ⊹iptional afternator—60 Hz	1000 KVA	1350 KVA	1000 KVA	1950 KVA		
FUEL	N.	G.	N.	·		
Fuel consumption—60 Hz—100% Load it in.	<u>13.</u>	<u>~.</u>	1	<u>2.</u>		
No Load	ar	96	l ec	6		
25%	15	-	16	•		
50%	22		23			
75%	30		310			
190%	97		410			
COOLING						
Ocolent capacity System lit. (US gal.)	56.9	(15)	56.9	(15)		
Occident flow/min. 60 Hz. US gal.		38	13			
Heat rejection to cordant BTWhr.		~ 5,600	1,048			
inlet eli 60 Hz (cfm)		200	19,2			
Max. operating air temp, unto radiator*^C ("F)	90 (90 f1			
Max. operating ambient lemp.! 10 (1F)	50 (50 (122)			
Max. external pressure drop on rad. In. H ₂ O	Ó.		0.5			
COMBUSTION AIR REQUIREMENTS Flow at railed power 60 Hz m/rmin. (cfm)	31.1 (1 100)	34 (1	200)		
EXHAUST Exhaust flow at rated output —60 Hz mirmin. (cfm) Max. recommended back pressure — Kpa (Hg) Exhaust temp, at rated output —66 Exhaust outlist size — (flenge)	112 (: 5.0 (14 4°)	1.5°) [°] 70	1 22 (4 5.0 (* 1 44 4* (i.5") 90		
ENGINE Rated RPM 60 Hz	23	00	29			
HP at rated KW 50 Hz		19 UU	45			
Piston speed 60 Hz m/min. (it./min.)	6907					
BMEP 60 Hz	17		19			
DERATION FACTORS Temperature						
1.9% for every 10°C above - °C	44	0	ļ u)		
1.1% for every 10#F above - "F	10	.4	10	4		
Altitude						
0.7% for every 100 m above - m	12:		100	37		
2,1% na every 1000 ff, above - ft,		00	356			

STANDARD ENGINE & SAFETY FEATURES

SG275/SG300

- High Cocient Temperature Automatic Shutdown
- Low Coolant Level Automatic Shuldown
- Low Of Pressure Automatic Shotdown
- Overspeed Automatic Struttswin (Solid-state)
- Crank Limiter (Solid-state)
- OI Erain Extension
- Radiator Erein Extension
- Factory-Installed Cool Flow Rediator
- Circed Ocolant Recovery System
- UV/Ozone Resistant Hoses
- Auther-Booted Engine Electrical Connections
- Isochronous Governor

- Fuel Lockoff Sciencid
- Secondary Fuel Regulator (N.G.)
- Stainless Steel Flexible Exhaust Connection
- Battery Charge Atternator
- Battery Cables
- Battery Tray
- Vibration isolation of Unit to Mounting Base
- 24 Volt, Solenoid-Activated Starter Motor
- At Cleaner
- Fan Guerd ■ Control Conscie (H100)

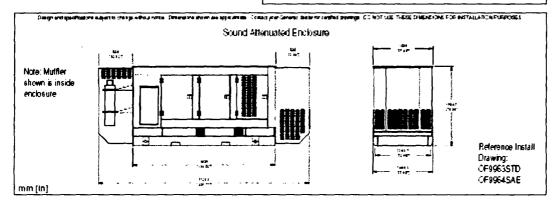
OPTIONS

- OPTIONAL COOLING SYSTEM ACCESSORIES
 - Rediator Euch Adapter
- OPTIONAL FUEL ACCESSORIES Flexible Fuel Lines
- OPTIONAL EXHAUST ACCESSORIES
- Di Critical Exhaust Stencer
- OPTIONAL ELECTRICAL ACCESSORIES
- ⊕ Battery, (2) 12 Volt, 135 A.H., 4DLT
 ⊕ Battery, (2) 12 Volt, 225 A.H., 9D
- Battery Healer
- 2A Battery Charge;
- 10A Dual Rate Battery Charges
- **OPTIONAL ALTERNATOR ACCESSORIES**
 - Afternator Strib Heater
 - Alternator Tropicalization
 - Main Line Circuit Breeker
- CONTROL CONSOLE OPTIONS
 - Digital Controller H100 see specification 01721 (088Y)

- ADDITIONAL OPTIONAL EQUIPMENT
 - Automatic Transfer Switch (GTS or HTS)
 - 3 20 Light Remote Annunctator
 - Remote Aday Panels
 - Unit Vibration isolators
 - Of Make-Up System
 - O Of Heater
 - 5 Year Warranties
 - Export Bosing
 - GenUni€ Communications Software
- OPTIONAL ENGLOSURES
 Weather Professive

 - Sound Attenuated
 - Aluminum and Stainless Sisol
 - Enclosed Muffer

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Attachment F

Emission Calculations

Compressor Station No. 29

Engine No. 2901/2902 EPN: 001/002

NOx Emissions: (Based on Vendor Data)

Ib NOx/hr = 6.04

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

= (6.04 lb/hr)(2000 lb/1 ton)(8760 hr/yr)

= 26.455

CO Emissions: (Based on Vendor Data)

lb CO/hr = 7.35

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

= (7.35 lb/hr)(2000 lb/1 ton)(8760 hr/yr)

= 32.193

VOC Emissions: (Based on Vendor Data)

lb UHC/hr = 2.110

lb VOC/yr = (0.211 UHC lb/hr) * (VOC fraction of 0.1)

= 0.211

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

= (0.21 lb/hr)(2000 lb/1 ton)(8760 hr/yr)

= 0.924

SO2 Emissions: (Based on FERC Limits)

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

= (10 gr S/100 scf)(0.0645 MMscf/hr)(1 lb/7000 gr)

= 0.922

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

= (0.92 lb S/hr)(2 lb SO2/lb S)

= 1.843

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

= (1.84 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb)

= 8.073

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

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

= (0.0066 lb/MMBtu)(67.09 MMBtu/hr)

= 0.443

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

= (0.44 lb PM/hr)(8760 hr/yr)(1 ton/2000 lb)

= 1.939

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

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

= (0.00102700 lb/MMBtu)(67.090 MMBtu/hr)

= 0.069

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

= (0.069 lb HAP/hr)(8760 hr/yr)(1 ton/2000 lb)

= 0.302

Emergency Gen. Nos. 1 & 2 EPNs: 003 & 004

Control Effic. =

Controlled CO tpy =

0%

0.0145

NOx Emissions: (Based on Vendor Data) SO2 Emissions: (Based on FERC Limits) lb NOx/hr = (g/bhp-hr)(bhp)(1 lb/453.59 g) (gr S/100 scf)(MMscf/hr)(1 lb/7000 gr) lb S/hr = (2.12 g/bhp-hr)(454 bhp)(1 lb/453.59 (10 gr S/100 scf)(0.0041 MMscf/hr)(1 lb/7000 ar) 2.122 = 0.059 Control Effic. = 5.7% Controlled NOx lb/hr = 2.00 lb SO2/hr = (lb S/hr)(2 lb SO2/lb S)(0.06 lb S/hr)(2 lb SO2/lb S) tons NOx/yr = (lb NOx/hr)(hr/yr)(1 ton/2000 lb) 0.117 (2.12 lb NOx/hr)(100 hr/yr)(1 ton/2000 lb) 0.1061 Control Effic. = 5.7% tons SO2/yr = (lb SO2/hr)(hr/yr)(1 ton/2000 lb) Controlled NOx tpy = (0.117 lb SO2/hr)(100 hr/yr)(1 ton/2000 lb) 0.006 CO Emissions: (Based on Vendor Data) lb CO/hr = (g/bhp-hr)(bhp)(1 lb/453.59 g) (118.3 g/bhp-hr)(454 bhp)(1 lb/453.59 a) PM Emissions: (Based on AP-42 Table 3.2-3, 7/00) 118.404 lb PM/hr = (lb PM/MMBtu)(MMBtu/hr) Control Effic. = 96.6% (0.01941 MMBtu/hr)(4.26 MMBtu/hr) Controlled CO lb/hr = 4.03 0.083 tons CO/yr = (lb CO/hr)(hr/yr)(1 ton/2000 lb) (118.40 lb CO/hr)(100 hr/yr)(1 ton/2000 lb) tons PM/yr = (lb PM/hr)(hr/yr)(1 ton/2000 lb) 5.92 (0.083 lb PM/hr)(100 hr/yr)(1 ton/2000 lb) Control Effic. = 96.6% 0.0041 Controlled CO tpy = VOC Emissions: (Based on Vendor Data) HAPs Emissions: (Based on AP-42 Table 3.2-3, 7/00) lb VOC/hr = (g/bhp-hr)(bhp)(1 lb/453.59 g) (lb HAP/MMBtu)(MMBtu/hr) lb HAP/hr = (0.29 g/bhp-hr)(454 bhp)(1 lb/453.59 g) (0.0234 lb/MMBtu)(4.26 MMBtu/hr) 0.290 0.0997 Control Effic. = Controlled VOC lb/hr = 0.290 tons HAP/yr = (lb HAP/hr)(hr/yr)(1 ton/2000 lb) tons VOC/yr = (lb VOC/hr)(hr/yr)(1 ton/2000 lb) (0.10 lb HAP/hr)(100 hr/yr)(1 ton/2000 lb) (0.29 lb VOC/hr)(100 hr/yr)(1 ton/2000 = lb) 0.005 0.0145 =

TANKS 4.0.9d

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

User Identification: City: State:	FGT CS 29 Oily Water Okochobee
Company:	Florida
Type of Tank:	Florida Gas Transmission
Description:	Vertical Fixed Roof Tank
Tank Dimensions	
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
Is Tank Heated (y/n):	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	0.06
Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	5.55
	0.03

Identification

Meterological Data used in Emissions Calculations: Vero Beach, Florida (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d

Emissions Report - Summary Format Liquid Contents of Storage Tank

FGT CS 29 Oily Water - Vertical Fixed Roof Tank Okochobee, Florida

Mixture/Component	Month	Tem	aily Liquid S perature (d Min.		Liquid Bulk Temp (deg F)	Vapo Avg.	or Pressure Min.	(psia) Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Lube Oil	Ali	74.17	69.18	79.16	72.43	0.0001	0.0001	0.0001	190.0000			190.00	Option 1: VP70 = .00006 VP80 = .00009

TANKS 4.0.9d

Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

FGT CS 29 Oily Water - Vertical Fixed Roof Tank Okochobee, Florida

	,		Losses(lbs)	The second of the second secon
Components		Working Loss	Breathing Loss	Total Emissions
Lube Oil		0.00	0.00	0.00

TANKS 4.0.9d

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

ld	e	n	ti	fi	ca	ŧi	or	

User Identification: FGT CS 29 Condensate

City: Okochobee State: Florida

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

Tank Dimensions

Shell Height (ft): 12.00 Diameter (ft): 8.00 Liquid Height (ft): 12.00 Avg. Liquid Height (ft): 6.00 Volume (gallons): 4,512.16 Turnovers: 0.01 Net Throughput(gal/yr): 50.00 Is Tank Heated (y/n): Ν

Paint Characteristics

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

Roof Characteristics

Type: Cone

Height (ft)
Slope (ft/ft) (Cone Roof)
0.00

Slope (r/m) (Cone Roof)

Breather Vent Settings

0.06

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

Meterological Data used in Emissions Calculations: Vero Beach, Florida (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

FGT CS 29 Condensate - Vertical Fixed Roof Tank Okochobee, Florida

Mixture/Component	Month	Ten	aily Liquid S	eg F)	Liquid Bulk Temp		or Pressure		Vapor Mol.	Liquid Ma ss	Vapor Mass	Mo ≀.	Basis for Vapor Pressure
**************************************	MONU	th Avg. Min. Max.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	ct. Fract. We	Weight	Calculations	
Pipeline Condensate	Ali	74.17	69.18	79.16	72.43	0.7115	0.6303	0.8013	53.0000			53.00	Option 4: RVP=1.4

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

Emissions Report for: Annual

FGT CS 29 Condensate - Vertical Fixed Roof Tank Okochobee, Florida

	 THE PERSON OF THE PERSON OF TH	Losses(ibs)	
Components	Working Loss	Breathing Loss	Total Emissions
Pipeline Condensate	 0.03	27.08	27.12

Attachment G

Fuel Analysis

FTWSCB1 ener			, √Egśt Sys	stêin Çîhroi	natograph		01-A	ug-2008 14 05 09
	Brasion 15	Station 15	Glancof Sk	Station 3	lacksonvillé Tullat	Gamsville	Brandy : Spanch	Simon
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
thane (1)	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
so-Butane	0.0806	0.0796	0.0814	0.0710	.0.0704	0.0728	0.0702	0.0854
-Butane	0.0944	0 0933	0.0947	0.0716	0.0563	0.0757	0.0515	0.0923
so-Pentane	0.0406	0.0411	0.0395	0.0270	0.0076	0.0333	0.0039	.0.0356
-Pentane	0.0301	- 0.0304	0.0295	0.0187	0.0038	0.0229	0.0016	0.0253
n-normalized Totals	100.03		99.91	99.78	100.08	Jaga (glica)	99.85	99 40
pecific Gravity	0.5869	0.5873	0.5868	0.5831	0.5759		0.5750	0.5850
BTU / cu. ft.	1030.2		1030.4	.1031.8	1043.2		1045.2	1035.1
	CR15		BRO1	CR18	CRJX	GLAB	CRBB	CR21
Dew Point and	H2S	Recall	. Wes	t Chromatogra	iphs .	East	On Line Chron	natographs

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