



Florida Department of
Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

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Lt. Governor

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Secretary

PERMITTEE:

Florida Power & Light Company
19050 State Road 62
Parrish, FL 34219

Final Permit Nos.: 0810024-008-AC
0810024-009-AO

County: Manatee

Effective Date: 11/29/2007

Expiration Date: 03/30/2008 (AC)

Expiration Date: 07/26/2011 (AO)

Project: Two (2) Fuel Oil Heaters

These permits are issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-204, 62-210, 62-212, 62-213, 62-296, 62-297, and Chapter 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the department and made a part hereof and specifically described as follows:

These permits authorize the construction modification and continued operation of a synthetic non-Title V fuel oil terminal. The construction modification is to allow the GTS Energy-Internal Combustion, Model DEG145, fuel oil heater to also use natural gas. After the modification is completed the terminal's description is as follows:

For the operation of a synthetic non-Title V fuel oil terminal. The facility receives fuel oil by marine vessels and tanker trucks, stores the fuel oil in storage tanks, and transfers fuel oil via pipeline to Florida Power & Light Company's Manatee Power Plant located east of Parrish. The facility consists of the following:

- Two (2) fixed-roof storage tanks each with a capacity of 500,000 barrels that receive new No. 6 fuel oil by marine vessels;
- One (1) fixed-roof storage tank with a capacity of 37,000 barrels that receives new No. 6 fuel oil by marine vessels;
- One (1) fixed-roof storage tank with a capacity of 5,000 barrels that receives new No. 2 fuel oil by tanker truck;
- One (1) emergency diesel generator rated at 75 kW and fired with new No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight, from a 75-gallon day tank. The day tank is filled by tanker truck;

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- One (1) Volcanic-Heater, Inc., Model 1002S, fuel oil heater designated as Heater H-1254-A and fired at a maximum heat input rate of 15.0 MMBTU/hour. The heater is assigned Emission Unit ID 001 and is located to the west of Emission Unit ID 003; and
- One (1) GTS Energy-Internal Combustion, Model DEG145, fuel oil heater designated as H-1254-B and fired at a maximum heat input rate of 12.50 MMBTU/hr. The heater is assigned Emission Unit ID 003 and is located to the east of Emission Unit ID 001.

Exempt Emission Sources

Emissions from the four (4) fixed-roof storage tanks and truck loading area are deemed insignificant and exempt from permitting pursuant to Rule 62-4.040(1)(b), F.A.C. This determination is based on the following.

- Volatile organic compound (VOC) emissions from each of the 500,000 barrel storage tanks are approximately 0.245 tons/year, based on a throughput of 997.45 million gallons per year.
- VOC emissions from the 37,000-barrel storage tank are approximately 0.49 tons/year, based on a throughput of 4.51 million gallons per year.
- VOC emissions from the 5,000-barrel storage tank are approximately 0.096 tons/year, based on a throughput of 1.94 million gallons per year.
- Periodically, trucks may be loaded with new No. 2 fuel oil.

The emergency diesel generator (w/day tank) is exempt from permitting pursuant to Rule 62-210.300(3)(a)36., F.A.C. The generator is fired at a maximum heat input rate of 1.05 MMBTU/hour. The sulfur dioxide, SO₂, emission from the generator when added to the SO₂ emissions of the other sources at this facility will not cause the total SO₂ emissions to equal or exceed 100 tons/year.

Facility Information Summary

Facility Location: Port Manatee, Palmetto, Manatee County

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Latitude: 27°37'32.7" N Longitude: 82°32'42.4" W UTM: Zone 17 349.06 E 3056.51 N

Facility ID No: 0810024

Emission Unit (EU) ID No.	Description
001	Volcanic fuel oil heater
003	GTS Energy fuel oil heater

Note: Please reference Permit No. and Emission unit ID No. in all correspondence, test report submittals, applications, etc.

Permitting History/Affected Permits: This permit replaces operation permit 0810024-006-AO and incorporates the modifications from construction permit 0810024-005-AC.

Title V Applicability: This is a synthetic non-Title V facility as this permit limits the emissions of SO₂ below the Title V permitting threshold of Chapter 62-213, F.A.C.

Attachments to This Permit: General Conditions (*version dated 11/1/05*)

Below is a summary of the facility's calculated highest potential SO₂ emissions in tons/yr. The facility's maximum allowable SO₂ emissions are contained in the specific conditions of this permit.

POLLUTANT	POTENTIAL EMISSIONS* tons/yr.
SO ₂ – E.U. No. 001 HEATER	67.86
SO ₂ – E.U. No. 003 HEATER	28.58
SO ₂ – EMERGENCY GENERATOR	0.11
SO ₂ – TOTAL FOR FACILITY	96.55

- * Based on these potential emissions, additional emission units/activities at the facility may not be eligible to utilize the Categorical Exemptions in Rule 62-210.300(3)(a), F.A.C. or the Generic and Temporary Exemptions in Rule 62-210.300(3)(b), F.A.C.

SPECIFIC CONDITIONS:

The following conditions apply facility-wide:

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1. General Conditions: A part of this permit is the attached 15 General Conditions.
[Rule 62-4.160, F.A.C.]
2. Other Requirements: Issuance of this permit does not relieve the permittee from complying with the applicable emission limiting standards or other requirements of Chapters 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. or any other requirement under federal, state, or local law.
[Rule 62-210.300, F.A.C.]
3. Hours of Operation: This facility is allowed to operate a maximum of 8,760 hrs./yr.
[Construction Permit 0810024-005-AC]
4. General Particulate Emission Limiting Standards: Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity).
[Rule 62-296.320(4)(b)1., F.A.C.]
5. General Standards - Objectionable Odor Prohibited: No person shall cause, suffer, allow, or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An 'objectionable odor' is defined as any odor present in the outdoor atmosphere, which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.
[Rules 62-210.200 (Definition 'Objectionable Odor' and 62-296.320(2), F.A.C.)]
6. Precautions for Unconfined Particulate Matter: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. As stated by the permittee in Attachment MNOFS_4.TXT of the construction application dated June 27, 1995, reasonable precautions shall include the following:
 - A. Use of temporary enclosures when necessary in order to contain abrasive blasting material from maintenance activities;
 - B. Maintenance of paved areas as needed; and
 - C. Limiting vehicle speed on unpaved roads.
[Rule 62-296.320(4)(c), F.A.C.; Construction Permit 0810024-005-AC]
7. Fugitive Emissions Opacity Standard: As an indicator that the precautions to control unconfined particulate matter emissions as required by Specific Condition No. 6 are adequate, emissions of unconfined particulate matter from the facility should not exceed five percent opacity. If this value is exceeded, it shall not be a violation in and of itself, but an indication that additional control precautions and/or work practices beyond those of Specific Condition No. 6 may be necessary.

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[Rule 62-4.070(3), F.A.C.]

8. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions (VE) or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
[Rules 62-297.310(7)(a)9. and 62-297.310(7)(b), F.A.C.]

9. Visible Emission Test Methods: If necessary, compliance with the VE limitations of Specific Condition Nos. 4 and 7 shall be determined using EPA Method 9 contained in Rule 62-297.401(9), F.A.C. The VE test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. The minimum requirements for stationary point source emission test procedures and reporting shall be in accordance with Chapter 62-297, F.A.C. and 40 CFR 60 Appendix A.
[Rules 62-297.310(4)(a)2. and 62-297.401, F.A.C.]

10. Annual Operating Report Requirement: On or before March 1 of each year, submit to the Air Compliance Section of the Department's Southwest District Office, an emission report [DEP Form No. 62-210.900(5)] for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be submitted.
[Rule 62-210.370(3), F.A.C.]

11. Operation Permit Application: The permittee shall submit a complete renewal application to the Air Permitting Section of the Department's Southwest District Office. A copy of the application should also be sent to the Manatee County Environmental Management Department (MCEMD) at 202 Sixth Avenue East, Bradenton, FL 34208. To properly apply for an operation permit, the applicant shall submit the following:

- A. The appropriate Department application form [see Rule 62-210.900(3), F.A.C. (Forms and Instructions)];
- B. The appropriate operation permit application fee(s); and
- C. Copies of the most recent month of records as required by Specific Condition No. B6.

[Rules 62-4.070(3), 62-297.310(7)(a)3., 62-210.300(2), and 62-210.900, F.A.C.]

The following conditions apply to Emission Unit No. 003 – GTS Energy-Internal Combustion fuel oil heater:

A1. NSPS Applicability: The fuel oil heater is subject to the applicable requirements of federal New Source Performance Standards (NSPS), 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

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[Rule 62-204.800(8), F.A.C. and 40 CFR 60, Subpart Dc]

A2. Fuel Oil Sulfur Content Limitation: Fuel oil fired in the heater shall not be greater than 0.5 weight percent sulfur at all times including periods of startup, shutdown, and malfunctions.
[40 CFR 60.42c(d) and (i)]

A3. Fuel Oil Sulfur Content Determination: The permittee shall comply with the following:

A. **SHIPMENT FUEL SAMPLING** - If the permittee seeks to demonstrate compliance with Specific Condition No. A2., based on **shipment fuel sampling**, the initial performance test shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the steam generating unit to demonstrate that the oil contains 0.5 weight percent sulfur or less. Thereafter, the permittee shall sample the oil in the fuel tank after each new shipment of oil is received, as described under 40 CFR 60.46c(d)(2).

1. Samples shall be collected from the fuel tank for each steam-generating unit immediately after the fuel tank is filled and before any oil is combusted. The permittee shall analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling.
[40 CFR 60.46c(d)(2)]

2. Fuel sampling and analysis shall be in accordance with 40 CFR 60, Appendix A, Method 19.
[40 CFR 60.46c(d)(1)]

[40 CFR 60.44c(g)]

B. **FUEL SUPPLIER CERTIFICATION** - If the permittee seeks to demonstrate compliance with Specific Condition No. A2., based on **fuel supplier certification**, the performance test shall consist of the certification, the certification from the fuel supplier, as described under 40 CFR 48c(f)(1), (2), or (3), as applicable.

(continued)

1. Fuel supplier certification shall include the following information, for distillate oil:

- a. The name of the oil supplier; and
- b. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c.

[40 CFR 60.44c(h)]

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[40 CFR 60.48c(f)(1)]

A4 Reporting and Additional Recordkeeping Requirements: The permittee shall comply with the following:

- A. The permittee shall submit reports of the Shipment Fuel Sampling(s) or Fuel Supplier Certification(s), as applicable, to the Air Compliance Section of the Department's Southwest District Office and the MCEMD. The reports shall be postmarked by the 30th day following the end of the reporting period. The reporting period is each six-month period and a reporting period is defined by the Department as from January 1 to June 30 & from July 1 to December 31 of each calendar year.

[40 CFR 60.48c(d) and (j); Rule 62-4.070(3), F.A.C.]

- B. The owner or operator of each affected facility subject to **fuel oil sulfur limits** shall keep records and submit reports as required in 40 CFR 60.48c(d), including the following information:

1. All reports shall include the calendar dates covered in the reporting period.

[40 CFR 60.48c(e)(1)]

2. If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification shall be as described in Specific Condition No. A.3.B. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

[40 CFR 60.48c(e)(11)]

[40 CFR 60.48c(e)]

- C. The permittee shall record and maintain records of the amounts of each fuel combusted during each day. {Permitting Note: This requirement is incorporated into Specific Condition Nos. B6.C. and B6.D.}

[40 CFR 60.48c(g)]

- D. All records required by 40 CFR 60, Subpart Dc, shall be maintained by the permittee for a period of two (2) years following the date of such record.

[40 CFR 60.48c(i)]

[40 CFR 60.48c]

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The following conditions apply to Emission Unit Nos. 001 – Volcanic-Heater, Inc. and 003 – GTS Energy-Internal Combustion fuel oil heaters, except as noted:

B1. Hour of Operation: The hours of operation of each heater are not restricted (i.e. 8,760 hrs./yr.). The heaters may operate simultaneously, provided fuel oil meters installed on each heater are operating properly.

[Rule 62-210.200(Definition 'Potential to Emit'), F.A.C.; Construction Permit No. 0810024-001-AC]

B2. Visible Emission Limitation: VE from each heater shall not be equal to or greater than 20% opacity. [Rule 62-296.320(4)(b), F.A.C.]

B3. Sulfur Dioxide Emission Limitation: The maximum total allowable SO₂ emissions are as follows:

- A. 67.86 tons/yr. (135,720 pounds/yr.) for Emission Unit No. 001;
- B. 28.58 tons/yr. (57,160 pounds/yr.) for Emission Unit No. 003; and
- C. 96.44 tons/yr. (192,880 pounds/yr.) for both Emission Unit Nos. 001 and 003 combined.

[Rule 62-210.200(Definition 'Potential to Emit'), F.A.C.; Construction Permit 0810024-005-AC]

B4. Operation Limitations:

- A. The maximum heat input rate to Emission Unit No. 001 shall not exceed 15.0 MMBTU/hr. (based on a daily average).
- B. The maximum heat input rate to Emission Unit No. 003 shall not exceed 12.5 MMBTU/hr. (based on a daily average).
- C. Emission Unit No. 003 may be fired on natural gas.
- D. Except for No. 1 below, the two (2) heaters may each be fired with any one (1) of the following at any one time:
 - 1. For Only Emission Unit No. 001: New No. 6 fuel oil with a maximum sulfur content of 1.0% sulfur, by weight, from the two 500,000 barrel and 37,000 barrel storage tanks; and
 - 2. New No. 2 fuel oil with a maximum sulfur content of 0.5% sulfur, by weight, from the 5,000-barrel storage tank.
- E. In order to ensure the potential sulfur dioxide emissions for the facility are less than 100 tons/yr., the fuel usage for the two (2) heaters is limited as follows:

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1. For only Emission Unit No. 001: New No. 6 fuel oil shall be limited to a maximum of 864.5 thousand gallons (kgals.)/yr.
2. For only Emission Unit No. 001: New No. 2 fuel oil shall be limited to a maximum of 966.2 kgals./yr.
3. For only Emission Unit No. 003: New No. 2 fuel oil shall be limited to a maximum of 805.1 kgals./yr.
4. New No. 2 fuel oil shall be limited to a maximum of 1771.3 kgal./yr., in cases where only that fuel is fired in the heaters.
5. Combinations of fuel oil usage other than those specified above that do not result in sulfur dioxide emissions greater than 96.44 tons/yr. are allowed.

[Application submitted 9/25/2007 regarding Specific Condition No. B4.C.; Construction Permit 0810024-005-AC]

B5. Fuel Oil Documentation Requirements: In order to demonstrate compliance with the maximum allowable sulfur content of the fuel oils, as stipulated in Specific Condition No. B4.D., the permittee shall maintain the following records at the facility for at least three (3) years:

- A. For Only Emission Unit No. 001: Each marine vessel shipment of new No. 6 fuel oil received shall be sampled on the day of receipt. The sample shall be analyzed in accordance with the methods contained in Rule 62-297.440, F.A.C. prior to being fired in the heaters. The method used to analyze the fuel oil shall be shown on the laboratory report. Also, see Specific Condition A3.
- B. Each tanker truck delivery of new No. 2 fuel oil shall have a vendor's supplied certification that the fuel oil delivered meets the specifications for No. 2 fuel oil, since the Department of Agriculture and Consumer Services' Rule 5F-2001 requires that No. 2 fuel oil sold in Florida have a maximum sulfur content of 0.5% by weight. Also see Specific Condition No. A3.

The records shall include the quantity of fuel oil, the type of fuel oil, and the date of receipt of the fuel oil. These records shall be maintained at the facility for at least 3 years and made available to the Department and Manatee County Environmental Management Department (MCEMD) upon request.
[Rules 62-4.070(3) and 62-4.160(14), F.A.C.; Permit 0810024-005-AC]

B6. Operating Recordkeeping Requirements: In order to demonstrate compliance with Specific Condition Nos. B.3. and B4., the permittee shall record the following:

DAILY

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For each heater that is operating:

- A. Date (month/day/year);
- B. Heater (Volcanic-Heater, Inc. or GTS Energy-Internal Combustion);
- C. The type of each fuel used (new No. 6 fuel oil, new No. 2 fuel oil, or natural gas);
- D. The total quantity of each fuel type used;
- E. The hours of operation for each fuel type used;
- F. The total number of hours of operation;
- G. For only Emission Unit No. 001: If the most recent VE compliance test was conducted when the heater was fired with new No. 2 fuel oil, then a cumulative total of the hours the heater was fired with new No. 6 fuel oil since that test shall be recorded in order to determine when the 400th hour is exceeded. See Specific Condition No. B7.C.2.;
- H. For only Emission Unit No. 003: If the most recent VE compliance test was conducted when the heater was fired with natural gas, then a cumulative total of the hours the heater was fired with new No. 2 fuel oil since that test shall be recorded in order to determine when the 400th hour is exceeded. See Specific Condition No. B7.C.3.; and
- I. The average daily heat input rate, in MMBTU/hr.

MONTHLY

For each heater that has operated:

- A. Date (month/year);
- B. Heater (Volcanic-Heater, Inc. or GTS Energy-Internal Combustion);
- *C. The total amount of each type of fuel used (new No. 6 fuel oil, new No. 2 fuel oil, or natural gas);
- *D. A cumulative calendar year total of the amount of each fuel type used (new No. 6 fuel oil, new No. 2 fuel oil, or natural gas);
- E. The total hours of operation for each fuel type used;

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- F. A cumulative calendar year to date total of hours of operation;
- G. The amount of sulfur dioxide emitted in lbs./month; and
- H. The cumulative calendar year total of sulfur dioxide emissions, in pounds/yr.

For both heaters (combined):

- A. Date (month/year); and
- B. The cumulative calendar year to date total amount of usage of new No. 2 fuel oil, in kgal./yr.

These records shall be maintained at the facility for at least 3 years and made available to the Department and the MCEMD upon request. Daily records shall be completed within 3 working days and monthly records shall be completed within 15 calendar days of the following month.

- * As stipulated in Specific Condition No. A4.D. for Emission Unit No. 003, only these records are allowed to be maintained at the facility for at least 2 years instead of 3 years.

[Rules 62-4.160(14) and 62-4.070(3), F.A.C.; Construction Permit 0810024-005-AC]

B7. Visible Emission Compliance Testing Requirements:

- A. The permittee shall test each heater for visible emissions (VE) during each Federal Fiscal Year (October 1 – September 30). Submit a copy of the test data to the Air Section of the Department's Southwest District Office and MCEMD within 45 days of such testing.
[Rules 62-297.310(7)(a)4. and 62-297.310(8)(b), F.A.C.]
- B. Compliance with the VE limitation of Specific Condition No. B2. shall be determined using EPA Method 9 contained in Rule 62-297.401(9), F.A.C. The VE test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. The minimum requirements for stationary point source emission test procedures and reporting shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60 Appendix A.
- C. The permittee shall comply with all of the following:
 - 1. If at any time the heat input rate for a heater is more than 10% above the heat input rate at which the most recent compliance test was conducted, then within 15 days of the date that higher heat input rate was recorded, the facility shall conduct a new compliance VE test for that heater. The new compliance tests shall be conducted at a heat input rate, which is no less than that higher heat input rate recorded and no greater than 15.0 MMBTU/hr. for E.U. No. 001 and 12.5 MMBTU/hr. for E.U. No. 003.
[Rule 62-297.310(2), F.A.C.]

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2. For only Emission Unit No. 001: If the most recent VE compliance test for the heater was conducted when the heater was fired with new No. 2 fuel oil, then within 15 days of the heater exceeding the 400th hour of firing new No. 6 fuel oil, a new compliance test shall be conducted when the heater is fired with new No. 6 fuel oil.
[Rule 62-297.310(2), F.A.C.]
 3. For only Emission Unit No. 003: If the most recent VE compliance test for the heater was conducted when the heater was fired with natural gas, then within 15 days of the heater exceeding the 400th hour of firing new No. 2 fuel oil, a new compliance test shall be conducted when the heater is fired with new No. 2 fuel oil.
 4. All compliance test reports shall be submitted to the Air Compliance Section of the Department's Southwest District Office and the MCEMD within 45 days of testing.
[Rule 62-297.310(8)(b), F.A.C.]
 5. Pursuant to Rule 62-4.070(3), F.A.C., failure to submit the following with any compliance test report for the test period may invalidate the test:
 - a. Heat input rate in MMBTU/hr. for the test period.
 - b. Type of fuel and fuel usage rate to the heater.
 - c. When the test is conducted with fuel oil, submit a copy of the most recent fuel analysis of the sulfur content of the fuel oil used to fire the heater.
 - d. A copy of the daily record for the day the test was conducted as required by Specific Condition No. B6.
- D. Testing Notification: The permittee shall notify the Air Compliance Section of the Department's Southwest District Office and the MCEMD at least 15 days prior to the date on which each formal compliance test is to begin of the date, time and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the permittee.
[Rule 62-297.310(7)(a)9., F.A.C.]
- B8. Excess Emission Requirements:
- A. Excess emissions resulting from startup, shutdown, or malfunction shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emission shall be minimized but in no case exceed 2 hours in any 24 hour period unless specifically authorized by the Department for a longer duration.
[Rule 62-210.700(1), F.A.C.]
 - B. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

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- C. In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

(Permitting note: The Excess Emissions Rule at Rule 62-210.700, F.A.C., cannot vary any requirement of a NSPS provision.)

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Mara Grace Nasca
District Air Program Administrator
Southwest District