



Florida Department of Environmental Protection

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PERMITTEE

Tampa Electric Company
702 North Franklin Street
Tampa, Florida 33602

Air Permit No. 0570039-091-AC
Permit Expires: March 31, 2021
Minor Air Construction Permit

Authorized Representative:
Mr. Byron Burrows, Manager – Air Programs

Big Bend Station
Revision to Units 1 – 4
Gas Igniters Usage Increase Project

PROJECT

This is the final air construction permit, which revises the previously established requirements for the natural gas igniters and process heaters. This permit replaces permit No. 0570039-084-AC, which was issued on January 6, 2016. The proposed work will be conducted at the existing Big Bend Station, which is an electric power facility categorized under Standard Industrial Classification No. 4911. The existing facility is located in Hillsborough County at 13031 Wyandotte Road in Apollo Beach, Florida. The UTM coordinates are Zone 17, 363.15 kilometers (km) East and 3074.91 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida

for:

Syed Arif, P.E., Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

FINAL PERMIT

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Construction Permit package was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Mr. Byron Burrows, TEC: btburrows@tecoenergy.com
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Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on
this date, pursuant to Section 120.52(7), Florida Statutes,
with the designated agency clerk, receipt of which is
hereby acknowledged.

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The Tampa Electric Company (TEC) Big Bend Station is a nominal 1,892 megawatt (MW) electric generation facility. This facility consists of four fossil fuel fired boiler electrical generating Units 1 – 4 (EU 001 – EU 004); four steam turbine electrical generators (STEG); two simple-cycle combustion turbine (SCCT) 4A and 4B (EU 041 and EU 042) sharing a common electrical generator; solid fuels, fly ash, limestone, gypsum, slag, bottom ash storage and handling facilities; and, fuel oil storage tanks.

Units 1 through 4 have a combined electrical generating output of 1,821 MW. Units 1 through 3 each have a design electrical generating capacity of 445 MW. Unit 4 has a design electrical generating capacity of 486 MW. The fuel fired in all four units consists of coal, or a coal/petroleum coke blend containing a maximum of 20% petroleum coke by weight, or coal blended with coal residual generated from the Polk Power Station, or a coal/petroleum coke blend further blended with coal residual generated from the Polk Power Station, and on-site generated fly ash. In addition to the fuels allowed to be burned during normal operation, each unit burns new No. 2 fuel oil during startup, shutdown, flame stabilization, and during the startup of an additional solid fuel mill on an already operating unit.

For each unit, nitrogen oxide (NO_x) emissions are controlled by low-NO_x burners (LNB) and a selective catalytic reduction (SCR) system. Unit 4 also has a separated over fire air system (SOFA) system to further control NO_x emissions. Particulate matter (PM) emissions are controlled by a dry electrostatic precipitator (ESP) while sulfur dioxide (SO₂) emissions are controlled by a wet flue gas desulfurization (FGD) system on each unit. Units 1 through 3 are equipped with continuous emissions monitoring systems (CEMS) to measure NO_x, SO₂, PM and carbon dioxide (CO₂). Unit 4 is equipped with CEMS to measure carbon monoxide (CO), NO_x, SO₂, PM and CO₂. These units began operation in 1970 (Unit 1), 1973 (Unit 2), 1976 (Unit 3), and 1985 (Unit 4).

The SCCT 4A and 4B (EU 041 and EU 042) consist of one PWPS FT8-3® SwiftPac® aero-derivative SCCT-electrical generator to operate in simple cycle mode. The SwiftPac® consists of two combustion turbines coupled to one common generator having a nominal gross generation capacity of 62 MW. Each SCCT is allowed to fire pipeline-quality natural gas and ultra-low sulfur distillate (ULSD) fuel oil. Each SCCT is equipped with water injection to minimize NO_x emissions and an oxidation catalyst to minimize CO and volatile organic compounds (VOC) emissions.

PROPOSED PROJECT

TEC is requesting revisions to permit No. 0570039-084-AC to increase the amount of natural gas that can be fired in the new natural gas igniters. More details of the proposed project can be found in the Technical Evaluation and Preliminary Determination. The conditions of this air construction permit supersede the specific conditions of permit No. 0570039-084-AC, which previously superseded permit Nos. 0570039-065-AC, 070-AC, 073-AC, 078-AC and -081-AC.

This project authorizes/modifies the following emissions units.

ID No.	Emission Unit Description
001	Fossil Fuel Fired Steam Generator Unit No. 1
002	Fossil Fuel Fired Steam Generator Unit No. 2
003	Fossil Fuel Fired Steam Generator Unit No. 3
004	Fossil Fuel Fired Steam Generator Unit No. 4
051	Two 6 MMBtu/hr Natural Gas-fired Process Heaters

SECTION 1. GENERAL INFORMATION

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the Acid Rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.
- The facility does operate units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal (CFR) 60.
- The facility does operate units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.
- The facility operates units subject to the Federal Clean Air Interstate Rule (CAIR) in accordance with Rule 62-296.470, F.A.C.

RELEVANT DOCUMENTS

Several documents shown in the following link are not a part of this permit, but helped form the basis for this permitting action. Documents related to this permitting action are posted under Permit No. 0570039-091-AC at the following web site address: <http://appprod.dep.state.fl.us/air/emission/apds/default.asp>

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority. The permitting authority for this project is the Office of Permitting and Compliance in the Division of Air Resource Management of the Department of Environmental Protection (Department). The Office of Permitting and Compliance mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400.
2. Compliance Authority. All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Drive, Tampa, Florida 33619. Phone: (813) 627-2600.
3. Appendices. The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); Appendix D (Common Testing Requirements); Appendix E (NESHAP Subpart A); and Appendix F (NESHAP Subpart DDDDD).
4. Applicable Regulations, Forms and Application Procedures. Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and, Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions. For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications. The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Construction and Expiration. The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Application for Title V Permit. This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions units. The permittee shall apply for a Title V air operation permit revision at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation of the combined natural gas igniter and process heater projects. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050 and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Fossil Fuel Fired Steam Generator Units 1 – 4

This section of the permit addresses the following emissions units.

EU No.	Emission Unit Description
001	Fossil Fuel Fired Steam Generator Unit No. 1
002	Fossil Fuel Fired Steam Generator Unit No. 2
003	Fossil Fuel Fired Steam Generator Unit No. 3
004	Fossil Fuel Fired Steam Generator Unit No. 4

Units 1 through 3 each have a design electrical generating capacity of 445 megawatts (MW). Unit 4 has a design electrical generating capacity of 486 MW. The fuel fired in all four units consists of coal, or a coal/petroleum coke blend containing a maximum of 20% petroleum coke by weight, or coal blended with coal residual generated from the Polk Power Station, or a coal/petroleum coke blend further blended with coal residual generated from the Polk Power Station, and on-site generated fly ash. In addition to the fuels allowed to be burned during normal operation, each unit burns new No. 2 fuel oil during startup, shutdown, flame stabilization, and during the startup of an additional solid fuel mill on an already operating unit. Upon completion of this project, Units 1 through 4 will have the capability to fire natural gas during startup, shutdown, flame stabilization, low-load conditions, and will have the capability to co-fire natural gas with coal during normal operations. Once the shakedown of the natural gas igniter system is complete, the firing of fuel oil will be discontinued.

For each unit, nitrogen oxide (NO_x) emissions are controlled by low-NO_x burners and a selective catalytic reduction system, particulate matter (PM) emissions are controlled by a dry electrostatic precipitator, and sulfur dioxide (SO₂) emissions are controlled by wet flue gas desulfurization (FGD). Unit 4 also has a separate over-fire air system to further control NO_x emissions. Units 1 through 4 are equipped with continuous emissions monitoring systems (CEMS) to measure NO_x, SO₂, PM and carbon dioxide (CO₂). Unit 4 is also equipped with CEMS to measure carbon monoxide (CO). These units began operation in 1970 (Unit 1), 1973 (Unit 2), 1976 (Unit 3), and 1985 (Unit 4).

{Permitting Note: Fossil Fuel Fired Steam Generator Units 1 - 4 are regulated under: the federal Acid Rain Program for Phase II SO₂ and NO_x; Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators with More than 250 million Btu per Hour Heat Input; Rule 62-296.700(6), F.A.C., Reasonable Available Control Technology (RACT) PM – Operation and Maintenance Plan; Rule 62-296.470, F.A.C., Clean Air Interstate Rule; 40 CFR 64, Compliance Assurance Monitoring, adopted and incorporated by reference in Rule 62-204.800, F.A.C.; 40 CFR 97, Transport Rule; and, NESHAP Subpart UUUUU, the Mercury and Air Toxics Standards, in 40 CFR 63. Unit 4 is also regulated under NSPS Subpart Da of 40 CFR 60, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, adopted and incorporated by reference in Rule 62-204.800(8)(b)2., F.A.C.; and, Rule 62-212.400, F.A.C., PSD.}

PREVIOUS APPLICABLE REQUIREMENTS

1. Other Permits. The conditions of this permit supersede permit No. 0570039-084-AC (issued January 6, 2016), which superseded all previously issued air construction permits for the natural gas igniter and process heater projects (Permit Nos. 0570039-065-AC, -070-AC, -073-AC, -078-AC, and -081-AC). The following conditions replace all previous applicable permit conditions and regulations related to the gas igniters and process heaters. [Rule 62-4.070, F.A.C.]

EQUIPMENT

2. Fossil Fuel Fired Steam Generator Units 1 – 4. The permittee is authorized to remove the existing fuel oil igniters and to install natural gas igniters, natural gas igniter piping and valve station, modify and upgrade the Burner Management System and associated equipment for Units 1 - 4 in order to burn natural gas instead of

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Fossil Fuel Fired Steam Generator Units 1 – 4

fuel oil during startup, shutdown, flame stabilization, and as a supplemental fuel. [Rule 62-212.300(1)(a), F.A.C.; Permit No. 0570039-084-AC; and, Application No. 0570039-091-AC]

PERFORMANCE RESTRICTIONS

3. Design, Permitted Capacities and Methods of Operation.

- a. *Boiler Design Capacity.* The design heat input rates from the combustion of solid fuels or solid fuels and natural gas combined are as follows:

<u>Unit No.</u>	<u>Heat Input MMBtu/hour</u>
1	4,037
2	3,996
3	4,115
4	4,330

{Permitting Note: These design heat input rates are based on the original design of each unit for firing coal with a certain lower heating value (LHV) that was used to design each boiler. At any given time, the actual heat input rate is a function of the actual demand load, the coal mass firing rate, and the fuel properties of the coal being fired at that time. Although the above design capacity is not intended as an operational restriction, the permittee shall obtain the appropriate air construction permits before making any physical or operational changes that would increase the actual heat input rate capability of the units.}

- b. *Permitted Capacity.* The maximum amount of natural gas that may be burned at any time in the four boilers and 2 process heaters, combined, is physically limited to 12,000 MMBtu/hr, due to the existing natural gas distribution system capacity at the Big Bend Station.
- c. *Evaporation of Excess Recycle Water.* A maximum of 730 million gallons/year of recycle water may be evaporated in Boilers 1-4, combined, to maintain the water balance at Bend Station.

[Rules 62-4.160(2), 62-210.200(PTE), 62-212.300(1)(e) & 62-296.405(1), F.A.C.; and, Application No. 0570039-091-AC]

4. Authorized Fuels.

- a. *Coal and Coal Blends (Solid Fuels).*

- (1) Coal. Coal is the primary fuel burned in Units 1 - 4.
- (2) Coal and Coal Blends. Units 1 – 4 are authorized to burn coal, or a coal/petroleum coke blend, or coal blended with raw coal residual, or a coal/petroleum coke blend further blended with raw coal residual. In any case, the petroleum coke content of any fuel blend shall not exceed 20% by weight during normal operation.
- (3) Raw Coal Residual. The proposed work shall not increase the permitted firing of 200 tons/day of raw coal residual in Units 1 - 4 combined.
- (4) Fly Ash Residual. Units 1 – 4 are authorized to re-inject on-site generated fly ash residual for energy recovery.

- b. *Natural Gas.*

- (1) Natural gas is authorized to be fired alone during startup, shutdown, flame stabilization, normal operation, and during the startup of an additional solid fuel mill on an already operating unit.
- (2) Natural gas is authorized to be co-fired in combination with coal/solid fossil fuel during normal operation as a supplemental fuel.

[Rule 62-210.200(PTE), F.A.C.; Permit No. 0570039-084-AC; and, Application No. 0570039-091-AC]

{Permitting Note: During normal operation, the SCR controls will be in use.}

5. Hours of Operation. The hours of operation are not limited (i.e., 8,760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Fossil Fuel Fired Steam Generator Units 1 – 4

6. Operation of Pollution Control Devices. As soon as possible after startup of each unit, all pollution control devices shall be operated during all periods of normal operation while burning any combination of authorized fuels, in accordance with the manufacturers' operating instructions. [Rule 62-4.070, F.A.C. and Application No. 0570039-091-AC]

TESTING PROVISIONS

7. Gas Igniter Capacity Testing. Provided the air pollution control devices are operating according to manufacturers' operating instructions, TEC is authorized to operate the gas igniter systems at varying gas delivery pressures in order to determine the maximum/optimal operating rates for each of the new igniters. This condition does not authorize TEC to exceed any existing emissions limitations or operation restrictions. [Rule 62-4.070, F.A.C. and Application No. 0570039-091-AC]
8. Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions 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, unless the Department obtains other information sufficient to demonstrate compliance. The owner or operator of the emissions unit shall provide a report on the results of said tests to the Department in accordance with the provisions of subsection 62-297.310(10), F.A.C. [Rule 62-297.310(8)(c), F.A.C.]
- {Permitting Note: This condition does not impose a specific testing requirement.}*
9. Test Notifications. The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9, F.A.C.]
10. Test Methods. Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
7E	Determination of Nitrogen Oxides Emissions From Stationary Sources (Instrumental Analyzer Procedure)
18	Measurement of Gaseous Organic Compound Emissions By Gas Chromatography
25	Determination of Total Gaseous Nonmethane Organic Emissions as Carbon
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800(8)(e), F.A.C. and Appendix A of 40 CFR 60]

RECORDS AND REPORTS

11. Operational Records. The permittee shall establish and maintain the following records from the firing of natural gas and solid fuel in steam generator Units 1 - 4:
- Record the heat input rate from the firing of solid fuels;
 - Record the heat input rate from the firing of natural gas;
 - The standard heating value of natural gas, 1,020 Btu/scf, shall be used to calculate the natural gas heat input rate;

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Fossil Fuel Fired Steam Generator Units 1 – 4

- d. The higher heating value (HHV) of coal, approximately 23.6 MMBtu/tons of coal, shall be used to calculate the coal heat input rate;
- e. The methods set forth in the current Title V permit for determining the heat input of solid fuels shall be used to calculate the heat input from solid fuel during co-firing operations;
- f. Records of the heat input rates of all fuels shall be maintained on-site and made available upon request.
[Rule 62-4.070(3), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

B. Two 6 MMBtu/hr Natural Gas-fired Process Heaters

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
051	Two 6 MMBtu/hr Natural Gas-fired Process Heaters

{Permitting Note: The process heaters are regulated under NESHAP Subpart DDDDD (Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) of 40 CFR 63 adopted and incorporated by reference in Rule 62-204.800, F.A.C.}

PREVIOUS APPLICABLE REQUIREMENTS

1. Other Permits. The conditions of this permit supersede permit No. 0570039-084-AC (issued January 6, 2016), which superseded all previously issued air construction permits for the natural gas igniter and process heater projects (Permit Nos. 0570039-065-AC, -070-AC, -073-AC, -078-AC, and -081-AC). The following conditions replace all previous applicable permit conditions and regulations related to the gas igniters and process heaters. [Rule 62-4.070, F.A.C.]

EQUIPMENT

2. Process Heaters. The permittee is authorized to install and operate two process heaters that will fire natural gas with a maximum heat input rate of 6 million British Thermal Units per hour (MMBtu/hr). Each process heater shall be equipped with a gas flow meter to monitor the actual natural gas heat input rate to each process heater. [Permit No. 0570039-084-AC and Application No. 0570039-091-AC]

PERFORMANCE RESTRICTIONS

3. Permitted Capacity. The process heaters shall be designed and operated with a maximum heat input rate of 6 MMBtu/hr. The maximum amount of natural gas that may be burned at any time in the four boilers and 2 process heaters, combined, is physically limited to 12,000 MMBtu/hr, due to the existing natural gas distribution system capacity at the Big Bend Station. [Permit No. 0570039-084-AC; Application No. 0570039-091-AC; and, Rule 62-210.200(PTE), F.A.C.]
4. Authorized Fuel. The process heaters shall fire only natural gas delivered through a federally regulated pipeline. [Permit No. 0570039-070-AC, Application No. 0570039-084-AC; and, Rule 62-210.200(PTE), F.A.C.]
5. Hours of Operation. The hours of operation for the process heaters are not limited (8,760 hours per year). [Rule 62-210.200(PTE), F.A.C.]
6. Applicable NESHAP Provisions. The process heaters are subject to, and shall comply with, the applicable provisions in NESHAP Subpart A (General Provisions) and NESHAP Subpart DDDDD (Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) of 40 CFR 63, which are identified in Appendix E and F of this permit. [NESHAP Subparts A and DDDDD in 40 CFR 63; and, Rule 62-204.800, F.A.C.]

EMISSIONS STANDARDS

7. Visible Emissions. Visible emissions from each process heater shall not exceed 20% opacity. This condition does not impose a specific visible emissions testing requirement. [Rule 62-296.320(4)(b)1., F.A.C.]
8. PM Emissions. The emissions of PM shall be minimized by firing exclusively natural gas delivered through a federally regulated pipeline. [Rule 62-210.200(PTE), F.A.C.]
9. SO₂ Emissions. The emissions of SO₂ shall be minimized by firing exclusively natural gas delivered through a federally regulated pipeline. [Rule 62-210.200(PTE), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

B. Two 6 MMBtu/hr Natural Gas-fired Process Heaters

TESTING AND COMPLIANCE REQUIREMENTS

10. Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions 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, unless the Department obtains other information sufficient to demonstrate compliance. The owner or operator of the emissions unit shall provide a report on the results of said tests to the Department in accordance with the provisions of subsection 62-297.310(10), F.A.C. [Rule 62-297.310(8)(c), F.A.C.]
11. Test Requirements. The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9, F.A.C.]
12. Test Methods. Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800 and 62-297.100, F.A.C.; and Appendix A of 40 CFR 60]

MONITORING REQUIREMENTS

13. Gas Flow Meter. Each process heater shall be equipped with a gas flow meter to monitor the actual natural gas flow rate to each process heater. [Rule 62-4.070(3), F.A.C.]

RECORDKEEPING AND REPORTING

14. Work Practice Standards. For each process heater, the owner or operator shall conduct a biennial tune-up (every 2-years) and maintain on-site and submit, if requested by the Department, an annual report in accordance with NESHAP Subpart DDDDD of 40 CFR 63. All recordkeeping requirements shall meet the following:
 - a. Your records must be in a form suitable and readily available for expeditious review.
 - b. You must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
 - c. You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2-years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. You can keep the records off site for the remaining 3 years. [NESHAP Subparts A and DDDDD in 40 CFR 63; and, Rule 62-204.800, F.A.C.]
15. Operational Records. To demonstrate compliance with the operational restrictions in Specific Condition **B.3.**, the permittee shall establish and maintain the following records when natural gas is fired in the process heaters:
 - a. Record the monthly natural gas heat input (MMBtu) of each process heater;
 - b. The standard heating value of natural gas, 1,020 Btu/scf, shall be used to calculate the monthly heat input; [Rule 62-4.070(3). F.A.C.; Permit No. 0570039-084-AC; and, Application No. 0570039-091-AC]