



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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2600 BLAIRSTONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT  
GOVERNOR

CARLOS LOPEZ-CANTERA  
LT. GOVERNOR

JONATHAN P. STEVERSON  
SECRETARY

## PERMITTEE

Tampa Electric Company  
Post Office Box 111  
Tampa, Florida 33601-0111

Authorized Representative:  
Mr. Ronald D. Bishop, Director

Air Permit No. 0570039-074-AC  
Permit Expires: December 1, 2106  
Minor Air Construction Permit

Big Bend Station  
SO<sub>2</sub> Emissions Reduction Project

## PROJECT

This is the final air construction permit, which specifies a sulfur dioxide (SO<sub>2</sub>) emissions cap over the existing fossil fuel fired electric generating units (Units 1 – 4, combined) at the Tampa Electric Company (TEC) Big Bend Station, which will reduce SO<sub>2</sub> emissions and ambient impacts from the facility. The existing Big Bend Station 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.). 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 requirements for major new source review in Rule 62-212, F.A.C.

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* Jeffrey F. Koerner, Program Administrator  
Office of Permitting and Compliance  
Division of Air Resource Management

## FINAL PERMIT

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### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air 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. Ronald D. Bishop, Director, TEC: [rdbishop@tecoenergy.com](mailto:rdbishop@tecoenergy.com)  
Mr. Byron T. Burrows, P.E., Manager, TEC: [btburrows@tecoenergy.com](mailto:btburrows@tecoenergy.com)  
Mr. Rob Velasco, P.E., TEC: [ravelasco@tecoenergy.com](mailto:ravelasco@tecoenergy.com)  
Ms. Diana M. Lee, P.E., EPCHC: [lee@epchc.org](mailto:lee@epchc.org)  
Ms. Justin Green, DEP Siting: [justin.b.green@dep.state.fl.us](mailto:justin.b.green@dep.state.fl.us)  
Ms. Diana Csank, Sierra Club: [diana.csank@sierraclub.org](mailto:diana.csank@sierraclub.org)  
Ms. Alisa Coe, Earth Justice: [acoe@earthjustice.org](mailto:acoe@earthjustice.org)  
Ms. Heather Ceron, US EPA Region 4: [ceron.heather@epa.gov](mailto:ceron.heather@epa.gov)  
Ms. Lynn Scarce, DEP OPC: [lynn.scarce@dep.state.fl.us](mailto:lynn.scarce@dep.state.fl.us)

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 Big Bend Station is a nominal 1,892 megawatt (MW) electric generation facility. This facility consists of four fossil fuel fired electrical generating Units 1 – 4; four steam turbine electrical generators (STEG); two simple-cycle combustion turbines (SCCT) 4A and 4B sharing a common electrical generator; solid fuels, fly ash, limestone, gypsum, slag, bottom ash storage and handling facilities; and fuel oil storage tanks. The existing facility consists of the following regulated emissions units (EU).

EU No.	Emission Unit Description
<i>Fossil Fuel Fired Steam Generator Units</i>	
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
<i>Solid Fuel Yard</i>	
010	Solid Fuel Yard Fugitive Emissions
029	Fuel Blending Bin Cyclone Collectors (FH-032 through FH-035)
030	Fuel Mill Cyclone Collectors (FH-048 and FH-049)
046	Transloading and Off-site Transfer of Solid Fuels and Slag (by truck, rail and barge)
047	Railcar Unloading and Conveying System
<i>Coal Bunkers with Roto-Clones</i>	
015	Unit No. 1 Coal Bunker with Roto-Clone
016	Unit No. 2 Coal Bunker with Roto-Clone
017	Unit No. 3 Coal Bunker with Roto-Clone
039	Unit No. 4 Coal Bunker with Roto-Clone
<i>Flyash Handling and Storage - Silo Nos. 1 - 2</i>	
008	Fly Ash Silo No. 1 Baghouse
009	Fly Ash Silo No. 2 Baghouse
014	Fly Ash Silo No. 3 Baghouse
<i>Limestone Handling and Storage</i>	
012	Limestone Silo A Baghouses (2)
013	Limestone Silo B Baghouses (2)
023	Limestone Conveyor LB/LC Baghouse
050	Limestone Conveyor LD/LE Baghouse
<i>Limestone Handling for FGD System for Units 1 &amp; 2</i>	
020	Limestone Conveyors LE/LF/LG/Silo C Belt Feeder Baghouse
021	Silo C Baghouse
<i>Wastewater Treatment Plant</i>	
022	Lime Silo for Wastewater Treatment Plant with one Baghouse
<i>Surface Coating Operations</i>	

## SECTION 1. GENERAL INFORMATION

EU No.	Emission Unit Description
032	Surface Coating of Miscellaneous Metal Parts
<i>Coal Residual Storage and Transfer from the Polk Power Station</i>	
037	Coal Residual Storage Facility
038	Coal Residual Transfer System
<i>Simple-Cycle Combustion Turbines</i>	
041	SCCT 4A with a common electric generator that it shares with SCCT 4B
042	SCCT 4B with a common electric generator that it shares with SCCT 4A
<i>Engines</i>	
043	SCCT Black Start Diesel Engine, 1,000 kilowatt
044	Coal Field Diesel Generator

### PROPOSED PROJECT

The purpose of the project is to reduce SO<sub>2</sub> emissions and ambient impacts from the facility. Specifically, the permit establishes an SO<sub>2</sub> emissions cap of 3,162 pounds per hour (lb/hour) based on a 30-day rolling average over existing fossil fuel fired electrical generating units (Units 1 – 4, combined). In addition to the recent improvements to the wet FGD systems, TEC is replacing the existing fuel igniters (Permit No. 0570039-065-AC) and associated equipment to allow Units 1 - 4 to burn natural gas instead of fuel oil during startup, shutdown and flame stabilization. Only the following existing emissions units will be affected by this project.

EU ID	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

### 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 operates units subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, 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 CFR 60.
- The facility does operate units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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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 Blairstone 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); and Appendix C (Common Conditions).
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. 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: 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. Permit Expiration. The expiration date shown on the first page of this permit provides time to implement the new SO<sub>2</sub> emissions cap 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 specifies an SO<sub>2</sub> emissions cap over the existing fossil fuel fired electric generating units (Units 1 – 4, combined) at the Big Bend Station. 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 the permit expiration date of this permit. 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, 62-4.220 and Chapter 62-213, F.A.C.]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**B. Fossil Fuel Fired Steam Generator Units 1 – 4 (EU 001 – EU 004)**

This section of the permit addresses the following emissions units.

<b>EU ID</b>	<b>Emission Unit Description</b>
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 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<sub>x</sub>) emissions are controlled by low-NO<sub>x</sub> burners and a selective catalytic reduction system, particulate matter (PM) emissions are controlled by a dry electrostatic precipitator, and sulfur dioxide (SO<sub>2</sub>) emissions are controlled by wet flue gas desulfurization (FGD). Unit 4 also has a separate over-fire air system to further control NO<sub>x</sub> emissions. Continuous opacity monitoring systems (COMS) are used to measure opacity. Units 1 through 4 are equipped with continuous emissions monitoring systems (CEMS) to measure NO<sub>x</sub>, SO<sub>2</sub>, and carbon dioxide (CO<sub>2</sub>). 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 SO<sub>2</sub> and NO<sub>x</sub>; 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; Compliance Assurance Monitoring, adopted and incorporated by reference in Rule 62-204.800, F.A.C.; Rule 62-296.470, F.A.C., Clean Air Interstate 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.; Rule 212.400, F.A.C., PSD.}*

**PREVIOUS APPLICABLE REQUIREMENTS**

1. Other Permits: The conditions of this permit supplement all previously issued air construction and operation permits for these emissions units. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulations. [Rule 62-4.070, F.A.C.]

**EMISSIONS STANDARDS**

2. SO<sub>2</sub> Emissions Cap: The combined emissions of SO<sub>2</sub> from all four fossil fuel fired steam generating units (EU 001 – EU 004, combined) shall not exceed 3,162 pounds per hour based on a 30-day rolling average. Compliance with this SO<sub>2</sub> emissions cap shall be demonstrated by data collected from the existing SO<sub>2</sub> CEMS. The new emissions cap applies at all times when these units are operating including periods of startup and shutdown. The effective date of this SO<sub>2</sub> emissions cap is within 180 days of completing construction of the last natural gas igniter authorized by Permit No. 0570039-065-AC, but no later than June 1, 2016. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO<sub>2</sub> Attainment SIP]

*{Permitting Note: This new emissions cap reduces SO<sub>2</sub> emissions and ambient impacts in and around the SO<sub>2</sub> non-attainment area in Hillsborough County.}*

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

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#### B. Fossil Fuel Fired Steam Generator Units 1 – 4 (EU 001 – EU 004)

##### MONITORING AND COMPLIANCE REQUIREMENTS

3. **SO<sub>2</sub> CEMS:** The permittee shall use the existing SO<sub>2</sub> CEMS data to demonstrate continuous compliance with the SO<sub>2</sub> emissions cap specified in Condition 2. The existing SO<sub>2</sub> CEMS shall continue to meet and follow the quality assurance and quality control requirements outlined in the facility's Title V air operation permit. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO<sub>2</sub> Attainment SIP]

##### NOTIFICATIONS AND REPORTS

4. **SO<sub>2</sub> Emissions Cap Exceedance:** If an exceedance of the SO<sub>2</sub> emissions cap occurs, the permittee shall notify the Compliance Authority within one business day. The permittee shall submit a report to the Compliance Authority within 15 days of occurrence detailing the nature and cause of the exceedance, describing corrective actions taken, and identifying when the unit(s) was returned to compliance. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO<sub>2</sub> Attainment SIP]
5. **SO<sub>2</sub> Reports:** The permittee shall submit semiannual reports summarizing the SO<sub>2</sub> data for the reporting period and demonstrating compliance with the SO<sub>2</sub> emissions cap. Reports shall be submitted within 30 days following the reporting period. The first report is due by January 30, 2016. Each report shall summarize each 30-day SO<sub>2</sub> emission rate during the reporting period along with any background information to explain emissions. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO<sub>2</sub> Attainment SIP]

*{Permitting Note: The first report that is due on January 30, 2016 will be a status report on the progress of the SO<sub>2</sub> Emissions Reduction Project. Subsequent reports shall summarize each 30-day SO<sub>2</sub> emission rate and background data during the reporting period.}*



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Executed in Tallahassee, Florida

*for* Jeffrey F. Koerner, Program Administrator  
Office of Permitting and Compliance  
Division of Air Resource Management



**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Air 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.

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Ms. Diana M. Lee, P.E., EPCHC: [lee@epchc.org](mailto:lee@epchc.org)  
Ms. Justin Green, DEP Siting: [justin.b.green@dep.state.fl.us](mailto:justin.b.green@dep.state.fl.us)  
Ms. Diana Csank, Sierra Club: [diana.csank@sierraclub.org](mailto:diana.csank@sierraclub.org)  
Ms. Alisa Coe, Earth Justice: [acoe@earthjustice.org](mailto:acoe@earthjustice.org)  
Ms. Heather Ceron, US EPA Region 4: [ceron.heather@epa.gov](mailto:ceron.heather@epa.gov)  
Ms. Lynn Scearce, DEP OPC: [lynn.scearce@dep.state.fl.us](mailto:lynn.scearce@dep.state.fl.us)

Clerk Stamp

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### FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
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## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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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 Blairstone Road (MS #5505), Tallahassee, Florida 32399-2400.
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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: 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. Permit Expiration. The expiration date shown on the first page of this permit provides time to implement the new SO<sub>2</sub> emissions cap 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 specifies an SO<sub>2</sub> emissions cap over the existing fossil fuel fired electric generating units (Units 1 – 4, combined) at the Big Bend Station. 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 the permit expiration date of this permit. 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, 62-4.220 and Chapter 62-213, F.A.C.]

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### B. Fossil Fuel Fired Steam Generator Units 1 – 4 (EU 001 – EU 004)

This section of the permit addresses the following emissions units.

EU ID	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 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<sub>x</sub>) emissions are controlled by low-NO<sub>x</sub> burners and a selective catalytic reduction system, particulate matter (PM) emissions are controlled by a dry electrostatic precipitator, and sulfur dioxide (SO<sub>2</sub>) emissions are controlled by wet flue gas desulfurization (FGD). Unit 4 also has a separate over-fire air system to further control NO<sub>x</sub> emissions. Continuous opacity monitoring systems (COMS) are used to measure opacity. Units 1 through 4 are equipped with continuous emissions monitoring systems (CEMS) to measure NO<sub>x</sub>, SO<sub>2</sub>, and carbon dioxide (CO<sub>2</sub>). 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 SO<sub>2</sub> and NO<sub>x</sub>; 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; Compliance Assurance Monitoring, adopted and incorporated by reference in Rule 62-204.800, F.A.C.; Rule 62-296.470, F.A.C., Clean Air Interstate 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.; Rule 212.400, F.A.C., PSD.}*

#### PREVIOUS APPLICABLE REQUIREMENTS

1. Other Permits: The conditions of this permit supplement all previously issued air construction and operation permits for these emissions units. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulations. [Rule 62-4.070, F.A.C.]

#### EMISSIONS STANDARDS

2. SO<sub>2</sub> Emissions Cap: The combined emissions of SO<sub>2</sub> from all four fossil fuel fired steam generating units (EU 001 – EU 004, combined) shall not exceed 3,162 pounds per hour based on a 30-day rolling average. Compliance with this SO<sub>2</sub> emissions cap shall be demonstrated by data collected from the existing SO<sub>2</sub> CEMS. The new emissions cap applies at all times when these units are operating including periods of startup and shutdown. The effective date of this SO<sub>2</sub> emissions cap is within 180 days of completing construction of the last natural gas igniter authorized by Permit No. 0570039-065-AC, but no later than June 1, 2016. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO<sub>2</sub> Attainment SIP]

*{Permitting Note: This new emissions cap reduces SO<sub>2</sub> emissions and ambient impacts in and around the SO<sub>2</sub> non-attainment area in Hillsborough County.}*

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

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#### B. Fossil Fuel Fired Steam Generator Units 1 – 4 (EU 001 – EU 004)

##### MONITORING AND COMPLIANCE REQUIREMENTS

3. **SO<sub>2</sub> CEMS:** The permittee shall use the existing SO<sub>2</sub> CEMS data to demonstrate continuous compliance with the SO<sub>2</sub> emissions cap specified in Condition 2. The existing SO<sub>2</sub> CEMS shall continue to meet and follow the quality assurance and quality control requirements outlined in the facility's Title V air operation permit. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO<sub>2</sub> Attainment SIP]

##### NOTIFICATIONS AND REPORTS

4. **SO<sub>2</sub> Emissions Cap Exceedance:** If an exceedance of the SO<sub>2</sub> emissions cap occurs, the permittee shall notify the Compliance Authority within one business day. The permittee shall submit a report to the Compliance Authority within 15 days of occurrence detailing the nature and cause of the exceedance, describing corrective actions taken, and identifying when the unit(s) was returned to compliance. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO<sub>2</sub> Attainment SIP]
5. **SO<sub>2</sub> Reports:** The permittee shall submit semiannual reports summarizing the SO<sub>2</sub> data for the reporting period and demonstrating compliance with the SO<sub>2</sub> emissions cap. Reports shall be submitted within 30 days following the reporting period. The first report is due by January 30, 2016. Each report shall summarize each 30-day SO<sub>2</sub> emission rate during the reporting period along with any background information to explain emissions. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO<sub>2</sub> Attainment SIP]

*{Permitting Note: The first report that is due on January 30, 2016 will be a status report on the progress of the SO<sub>2</sub> Emissions Reduction Project. Subsequent reports shall summarize each 30-day SO<sub>2</sub> emission rate and background data during the reporting period.}*

## FINAL DETERMINATION

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### PERMITTEE

Tampa Electric Company  
Post Office Box 111  
Tampa, Florida 33601-0111

### PERMITTING AUTHORITY

Florida Department of Environmental Protection (Department)  
Division of Air Resource Management  
Office of Permitting and Compliance  
2600 Blairstone Road, MS #5505  
Tallahassee, Florida 32399-2400

### PROJECT

Air Permit No. 0570039-074-AC  
Minor Air Construction Permit  
Big Bend Station

This project specifies a sulfur dioxide (SO<sub>2</sub>) emissions cap over the existing fossil fuel fired electric generating units (Units 1 – 4, combined) at the Tampa Electric Company Big Bend Station, which will reduce SO<sub>2</sub> emissions and ambient impacts from the facility.

### NOTICE AND PUBLICATION

The Department distributed a draft minor air construction permit package on January 15, 2015. The applicant published the Public Notice in the La Gaceta on February 6, 2015. The Department received the proof of publication on February 10, 2015. No requests for administrative hearings or requests for extensions of time to file a petition for administrative hearing were received.

### COMMENTS

No comments on the draft permit were received from the public, the Environmental Protection Commission of Hillsborough County, the EPA Region 4 Office. One minor comment was received by the applicant with regard to **Specific Condition II.3.5** dealing with SO<sub>2</sub> emissions rate reporting requirements. Specifically, the applicant requested that a clarification to the condition be made to indicate that the first report that is due on January 30, 2016 will be a project status report instead of a SO<sub>2</sub> emissions rate report. The applicant indicate that this clarification was needed because the SO<sub>2</sub> emissions cap does not come into effect prior to January 30, 2016. The Department agreed to this request and a clarifying permitting note was added to the condition.

### CONCLUSION

The final action of the Department is to issue the permit as drafted.

## SECTION 4. APPENDICES

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### Contents

Appendix A. Citation Formats and Glossary of Common Terms

Appendix B. General Conditions

Appendix C. Common Conditions



## SECTION 4. APPENDIX A

### Citation Formats and Glossary of Common Terms

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#### CITATION FORMATS

The following illustrate the formats used in the permit to identify applicable requirements from permits and regulations.

##### Old Permit Numbers

Example: Permit No. AC50-123456 or Permit No. AO50-123456

Where: “AC” identifies the permit as an Air Construction Permit  
“AO” identifies the permit as an Air Operation Permit  
“123456” identifies the specific permit project number

##### New Permit Numbers

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: “099” represents the specific county ID number in which the project is located  
“2222” represents the specific facility ID number for that county  
“001” identifies the specific permit project number  
“AC” identifies the permit as an air construction permit  
“AF” identifies the permit as a minor source federally enforceable state operation permit  
“AO” identifies the permit as a minor source air operation permit  
“AV” identifies the permit as a major Title V air operation permit

##### PSD Permit Numbers

Example: Permit No. PSD-FL-317

Where: “PSD” means issued pursuant to the preconstruction review requirements of the Prevention of Significant Deterioration of Air Quality  
“FL” means that the permit was issued by the State of Florida  
“317” identifies the specific permit project number

##### Florida Administrative Code (F.A.C.)

Example: [Rule 62-213.205, F.A.C.]

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

##### Code of Federal Regulations (CFR)

Example: [40 CFR 60.7]

Means: Title 40, Part 60, Section 7

#### GLOSSARY OF COMMON TERMS

° F: degrees Fahrenheit

µg: microgram

AAQS: Ambient Air Quality Standard

acf: actual cubic feet

acfm: actual cubic feet per minute

ARMS: Air Resource Management System  
(Department’s database)

BACT: best available control technology

bhp: brake horsepower

Btu: British thermal units

CAM: compliance assurance monitoring

CEMS: continuous emissions monitoring system

cfm: cubic feet per minute

CFR: Code of Federal Regulations

CAA: Clean Air Act

CMS: continuous monitoring system

CO: carbon monoxide

CO<sub>2</sub>: carbon dioxide

## SECTION 4. APPENDIX A

### Citation Formats and Glossary of Common Terms

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<b>COMS:</b> continuous opacity monitoring system	<b>NSPS:</b> New Source Performance Standards
<b>DARM:</b> Division of Air Resource Management	<b>O&amp;M:</b> operation and maintenance
<b>DEP:</b> Department of Environmental Protection	<b>O<sub>2</sub>:</b> oxygen
<b>Department:</b> Department of Environmental Protection	<b>Pb:</b> lead
<b>dscf:</b> dry standard cubic feet	<b>PM:</b> particulate matter
<b>dscfm:</b> dry standard cubic feet per minute	<b>PM<sub>10</sub>:</b> particulate matter with a mean aerodynamic diameter of 10 microns or less
<b>EPA:</b> Environmental Protection Agency	<b>ppm:</b> parts per million
<b>ESP:</b> electrostatic precipitator (control system for reducing particulate matter)	<b>ppmv:</b> parts per million by volume
<b>EU:</b> emissions unit	<b>ppmvd:</b> parts per million by volume, dry basis
<b>F:</b> fluoride	<b>QA:</b> quality assurance
<b>F.A.C.:</b> Florida Administrative Code	<b>QC:</b> quality control
<b>F.A.W.:</b> Florida Administrative Weekly	<b>PSD:</b> prevention of significant deterioration
<b>F.D.:</b> forced draft	<b>psi:</b> pounds per square inch
<b>F.S.:</b> Florida Statutes	<b>PTE:</b> potential to emit
<b>FGD:</b> flue gas desulfurization	<b>RACT:</b> reasonably available control technology
<b>FGR:</b> flue gas recirculation	<b>RATA:</b> relative accuracy test audit
<b>ft<sup>2</sup>:</b> square feet	<b>RBLC:</b> EPA's RACT/BACT/LAER Clearinghouse
<b>ft<sup>3</sup>:</b> cubic feet	<b>SAM:</b> sulfuric acid mist
<b>gpm:</b> gallons per minute	<b>scf:</b> standard cubic feet
<b>gr:</b> grains	<b>scfm:</b> standard cubic feet per minute
<b>HAP:</b> hazardous air pollutant	<b>SIC:</b> standard industrial classification code
<b>Hg:</b> mercury	<b>SIP:</b> State Implementation Plan
<b>I.D.:</b> induced draft	<b>SNCR:</b> selective non-catalytic reduction (control system used for reducing emissions of nitrogen oxides)
<b>ID:</b> identification	<b>SO<sub>2</sub>:</b> sulfur dioxide
<b>kPa:</b> kilopascals	<b>TPD:</b> tons/day
<b>lb:</b> pound	<b>TPH:</b> tons per hour
<b>MACT:</b> maximum achievable control technology	<b>TPY:</b> tons per year
<b>MMBtu:</b> million British thermal units	<b>TRS:</b> total reduced sulfur
<b>MSDS:</b> material safety data sheets	<b>UTM:</b> Universal Transverse Mercator coordinate system
<b>MW:</b> megawatt	<b>VE:</b> visible emissions
<b>NESHAP:</b> National Emissions Standards for Hazardous Air Pollutants	<b>VOC:</b> volatile organic compounds
<b>NO<sub>x</sub>:</b> nitrogen oxides	

## SECTION 4. APPENDIX B

### General Conditions

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are “permit conditions” and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - a. Have access to and copy any records that must be kept under conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department

## SECTION 4. APPENDIX B

### General Conditions

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rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (not applicable);
  - b. Determination of Prevention of Significant Deterioration (not applicable); and
  - c. Compliance with New Source Performance Standards (not applicable).
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - (a) The date, exact place, and time of sampling or measurements;
    - (b) The person responsible for performing the sampling or measurements;
    - (c) The dates analyses were performed;
    - (d) The person responsible for performing the analyses;
    - (e) The analytical techniques or methods used;
    - (f) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SECTION 4. APPENDIX C**  
**Common Conditions**

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Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at the facility.

**EMISSIONS AND CONTROLS**

1. **Plant Operation - Problems:** If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. **Circumvention:** The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. **Excess Emissions Allowed:** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed 2 hours in any 24-hour period unless specifically authorized by the Department for longer duration. Pursuant to Rule 62-210.700(5), F.A.C., the permit subsection may specify more or less stringent requirements for periods of excess emissions. Rule 62-210-700(Excess Emissions), F.A.C., cannot vary or supersede any federal NSPS or NESHAP provision. [Rule 62-210.700(1), F.A.C.]
4. **Excess Emissions Prohibited:** Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
5. **Excess Emissions - Notification:** In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority 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.]
6. **VOC or OS Emissions:** No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]
7. **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" means 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 62-296.320(2) and 62-210.200(Definitions), F.A.C.]
8. **General Visible Emissions:** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]
9. **Unconfined Particulate Emissions:** During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

**RECORDS AND REPORTS**

10. **Records Retention:** All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least 5 years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rule 62-213.440(1)(b)2, F.A.C.]
11. **Emissions Computation and Reporting:**
  - a. **Applicability.** This rule sets forth required methodologies to be used by the owner or operator of a facility for computing actual emissions, baseline actual emissions, and net emissions increase, as defined at Rule 62-210.200, F.A.C., and for computing emissions for purposes of the reporting requirements of subsection 62-210.370(3) and paragraph 62-212.300(1)(e), F.A.C., or of any permit condition that requires emissions be computed in accordance with this rule. This rule is not intended to establish methodologies for determining compliance with the emission

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## SECTION 4. APPENDIX C

### Common Conditions

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limitations of any air permit. [Rule 62-210.370(1), F.A.C.]

- b. *Computation of Emissions.* For any of the purposes set forth in subsection 62-210.370(1), F.A.C., the owner or operator of a facility shall compute emissions in accordance with the requirements set forth in this subsection.
- (1) **Basic Approach.** The owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches set forth below to compute the emissions of a pollutant from an emissions unit; provided, however, that nothing in this rule shall be construed to require installation and operation of any continuous emissions monitoring system (CEMS), continuous parameter monitoring system (CPMS), or predictive emissions monitoring system (PEMS) not otherwise required by rule or permit, nor shall anything in this rule be construed to require performance of any stack testing not otherwise required by rule or permit.
- (a) If the emissions unit is equipped with a CEMS meeting the requirements of paragraph 62-210.370(2)(b), F.A.C., the owner or operator shall use such CEMS to compute the emissions of the pollutant, unless the owner or operator demonstrates to the department that an alternative approach is more accurate because the CEMS represents still-emerging technology.
- (b) If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., but emissions of the pollutant can be computed pursuant to the mass balance methodology of paragraph 62-210.370(2)(c), F.A.C., the owner or operator shall use such methodology, unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
- (c) If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., and emissions cannot be computed pursuant to the mass balance methodology, the owner or operator shall use an emission factor meeting the requirements of paragraph 62-210.370(2)(d), F.A.C., unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
- (2) **Continuous Emissions Monitoring System (CEMS).**
- (a) An owner or operator may use a CEMS to compute emissions of a pollutant for purposes of this rule provided:
- 1) The CEMS complies with the applicable certification and quality assurance requirements of 40 CFR Part 60, Appendices B and F, or, for an acid rain unit, the certification and quality assurance requirements of 40 CFR Part 75, all adopted by reference at Rule 62-204.800, F.A.C.; or
- 2) The owner or operator demonstrates that the CEMS otherwise represents the most accurate means of computing emissions for purposes of this rule.
- (b) Stack gas volumetric flow rates used with the CEMS to compute emissions shall be obtained by the most accurate of the following methods as demonstrated by the owner or operator:
- 1) A calibrated flow meter that records data on a continuous basis, if available; or
- 2) The average flow rate of all valid stack tests conducted during a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
- (c) The owner or operator may use CEMS data in combination with an appropriate f-factor, heat input data, and any other necessary parameters to compute emissions if such method is demonstrated by the owner or operator to be more accurate than using a stack gas volumetric flow rate as set forth at subparagraph 62-210.370(2)(b)2., F.A.C., above.
- (3) **Mass Balance Calculations.**
- (a) An owner or operator may use mass balance calculations to compute emissions of a pollutant for purposes of this rule provided the owner or operator:
- 1) Demonstrates a means of validating the content of the pollutant that is contained in or created by all materials or fuels used in or at the emissions unit; and
- 2) Assumes that the emissions unit emits all of the pollutant that is contained in or created by any material or fuel used in or at the emissions unit if it cannot otherwise be accounted for in the

**SECTION 4. APPENDIX C**  
**Common Conditions**

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process or in the capture and destruction of the pollutant by the unit's air pollution control equipment.

- (b) Where the vendor of a raw material or fuel which is used in or at the emissions unit publishes a range of pollutant content from such material or fuel, the owner or operator shall use the highest value of the range to compute the emissions, unless the owner or operator demonstrates using site-specific data that another content within the range is more accurate.
  - (c) In the case of an emissions unit using coatings or solvents, the owner or operator shall document, through purchase receipts, records and sales receipts, the beginning and ending VOC inventories, the amount of VOC purchased during the computational period, and the amount of VOC disposed of in the liquid phase during such period.
- (4) Emission Factors.
- a. An owner or operator may use an emission factor to compute emissions of a pollutant for purposes of this rule provided the emission factor is based on site-specific data such as stack test data, where available, unless the owner or operator demonstrates to the department that an alternative emission factor is more accurate. An owner or operator using site-specific data to derive an emission factor, or set of factors, shall meet the following requirements.
    - 1) If stack test data are used, the emission factor shall be based on the average emissions per unit of input, output, or gas volume, whichever is appropriate, of all valid stack tests conducted during at least a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
    - 2) Multiple emission factors shall be used as necessary to account for variations in emission rate associated with variations in the emissions unit's operating rate or operating conditions during the period over which emissions are computed.
    - 3) The owner or operator shall compute emissions by multiplying the appropriate emission factor by the appropriate input, output or gas volume value for the period over which the emissions are computed. The owner or operator shall not compute emissions by converting an emission factor to pounds per hour and then multiplying by hours of operation, unless the owner or operator demonstrates that such computation is the most accurate method available.
  - b. If site-specific data are not available to derive an emission factor, the owner or operator may use a published emission factor directly applicable to the process for which emissions are computed. If no directly-applicable emission factor is available, the owner or operator may use a factor based on a similar, but different, process.
- (5) Accounting for Emissions During Periods of Missing Data from CEMS, PEMS, or CPMS. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of missing data from CEMS, PEMS, or CPMS using other site-specific data to generate a reasonable estimate of such emissions.
- (6) Accounting for Emissions During Periods of Startup and Shutdown. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of the emissions unit.
- (7) Fugitive Emissions. In computing the emissions of a pollutant from a facility or emissions unit, the owner or operator shall account for the fugitive emissions of the pollutant, to the extent quantifiable, associated with such facility or emissions unit.
- (8) Recordkeeping. The owner or operator shall retain a copy of all records used to compute emissions pursuant to this rule for a period of five years from the date on which such emissions information is submitted to the department for any regulatory purpose.

[Rule 62-210.370(2), F.A.C.]

**SECTION 4. APPENDIX C**

**Common Conditions**

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c. *Annual Operating Report for Air Pollutant Emitting Facility*

- (1) The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed each year for the following facilities:
  - a. All Title V sources.
  - b. All synthetic non-Title V sources.
  - c. All facilities with the potential to emit ten (10) tons per year or more of volatile organic compounds or twenty-five (25) tons per year or more of nitrogen oxides and located in an ozone nonattainment area or ozone air quality maintenance area.
  - d. All facilities for which an annual operating report is required by rule or permit.
- (2) Notwithstanding paragraph 62-210.370(3)(a), F.A.C., no annual operating report shall be required for any facility operating under an air general permit.
- (3) The annual operating report shall be submitted to the appropriate Department of Environmental Protection (DEP) division, district or DEP-approved local air pollution control program office by April 1 of the following year. If the report is submitted using the Department's electronic annual operating report software, there is no requirement to submit a copy to any DEP or local air program office.
- (4) Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C., for purposes of the annual operating report.
- (5) Facility Relocation. Unless otherwise provided by rule or more stringent permit condition, the owner or operator of a relocatable facility must submit a Facility Relocation Notification Form (DEP Form No. 62-210.900(6)) to the Department at least 30 days prior to the relocation. A separate form shall be submitted for each facility in the case of the relocation of multiple facilities which are jointly owned or operated.

[Rule 62-210.370(3), F.A.C.]