


Florida Department of Environmental Protection

Memorandum

TO: Joseph Kahn, Director
THROUGH Trina Vielhauer, Bureau of Air Regulation
THROUGH: Al Linero, Permitting South Section 
FROM: Teresa Heron, Permitting South Section ^{TLV}
DATE: November 13, 2007
SUBJECT: FINAL Air Permit No. 0570039-028-AV, Title V Permit Revision
Tampa Electric Company (TEC)
Solid Fuel Yard Transloading Operation

The purpose of this permit package is to revise Title V air operation permit 0570039-017-AV by incorporating air construction Permit No. 0570039-025-AC for the transloading project.

Attached for your review are the following items:

- Final Determination;
- Statement of Basis;
- Title V Permit

Only Subsection H (revised) and Appendix F (new) are the affected parts. We did not conduct an exhaustive review of the other conditions and the format of the underlying Title V Permit that is being revised.

We recommend your approval of the attached final permit for this project.

Attachments

TLV/aal/tmh



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor
Jeff Kottkamp
Lt. Governor
Michael W. Sole
Secretary

NOTICE OF FINAL TITLE V AIR OPERATION PERMIT REVISION

In the Matter of an
Application for Permit Revision by:

Ms. Karen A. Sheffield
General Manager
Tampa Electric Company
6944 U.S. Highway 41
Apollo Beach, FL 33572-9200

FINAL Permit Project No.: 0570039-028-AV
Emissions Unit 010 – Solid Fuel Yard
Additional Transloading Project
Big Bend Station
Hillsborough County

Enclosed is the FINAL Permit, No. 0570039-028-AV, for the Title V Air Operation Revision for the Big Bend Station located at Big Bend Road, North Ruskin, Hillsborough County. The purpose of this permit is to incorporate the changes approved in air construction permit 0570039-025-AC related to fuel and slag transloading operations at the solid fuel yard.

This permit revision is issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit revision) has the right to seek judicial review of the permit revision pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; 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 of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.

Joseph Kahn, Director
Division of Air Resource
Management

JK/tlv/aal/tmh

Attachments

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL TITLE V AIR OPERATION PERMIT REVISION (including the FINAL Determination and the FINAL Permit) was sent by electronic (received receipt requested) mail before the close of business on 11/21/01 to the persons listed below:

Karen Sheffield, TEC: kasheffield@tecoenergy.com
Byron Burrows, TEC: btburrows@tecoenergy.com
Cindy Zhang-Torres, FDEP-SWD: cindy.zhang-torres@dep.state.fl.us
Diana Lee, EPCHC: lee@epchc.org
Jeff Sims, EPCHC: simsj@epchc.org
Jim Little, EPA Region 4: little.james@epamail.epa.gov
Kathleen Forney, U.S. EPA Region 4: forney.kathleen@epa.gov
Barbara Friday, BAR: barbara.friday@dep.state.fl.us

Clerk Stamp

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


(Clerk) _____ (Date) 11/21/01

FINAL DETERMINATION

Title V Air Operation Permit Revision
FINAL Permit Project No.: 0570039-028-AV
Tampa Electric Company
Big Bend Station
Page 1 of 1

I. Comments.

No comments were received from the USEPA during their 45 day review period of the PROPOSED Permit. Day 45 was November 18, 2007.

II. Conclusion.

In conclusion, the permitting authority hereby issues the FINAL Permit.

STATEMENT OF BASIS

FACILITY DESCRIPTION

The Tampa Electric Company (TEC) Big Bend Station is a nominal 2,028 MW electric generation facility. This facility consists of four coal and petroleum coke-fueled steam generators (Units Nos. 1 through 4); four steam turbines; three simple-cycle combustion turbines (CT Nos. 1, 2, and 3); solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities; and fuel oil storage tanks. In addition, there is a ship surface coating operation.

PRIMARY REGULATORY REQUIREMENTS

- The facility is a major source of hazardous air pollutants (HAP).
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source (PSD-major source) in accordance with Rule 62-212.400, F.A.C.
- The facility operates units subject to the Standards of Performance for New Stationary Sources pursuant to 40 CFR Part 60.
- The steam generators (Units 1 through 4) are not subject to the National Emissions Standards for Hazardous Air Pollutants pursuant to 40 CFR Part 63.
- Units 1 through 4 are subject to the Acid Rain provisions of the Clean Air Act.
- Units 1 through 4 are subject to the Federal Clean Air Interstate Rule (CAIR) in accordance with the Final Department Rules issued pursuant to CAIR as implemented by FDEP in Rule 62-296.470, Florida Administrative Code (F.A.C.).
- Units 1 through 4 are subject to the Federal Clean Air Mercury Rule (CAMR) implemented by the Department in Rule 62-296.480, F.A.C.
- Unit 4 was originally certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C.

PROJECT DESCRIPTION

On May 1, 2007 TEC submitted an application to revise its facility Title V air operation Permit No. 0570039-017-AV that has an effective date of January 1, 2005. The purpose of the revision is to incorporate the changes approved by air construction permit 0570039-025-AC issued on October 31, 2006. The referenced air construction permit to be incorporated into this operation permit revision authorizes:

- Additional transloading for offsite shipping of coal and petroleum coke that is typically received by barge at the solid fuel yard; and
- Slag transloading.

Emissions points associated with this operation are: (a) the transfer of slag from a barge to the fuel storage yard (b) the transfer of coal, petroleum coke or slag from a storage pile by mobile equipment to trucks, and (c) coal, petroleum coke, or slag truck travel on the facility paved and unpaved roads.

The revision has been prepared as DRAFT Title V air operation permit revision No. 0570039-028-AV.

DETAILS OF REVISION

The overall change to the present Title V Permit is the inclusion of additional conditions from air construction permit No. 0570039-025-AC related to fuel and slag transloading operations at the solid fuel yard. The changes were made as additional conditions to Subsection H of the Title V Operation Permit. These are listed as conditions H.6 through H.12 in Subsection H.

STATEMENT OF BASIS

Appendix F has been added and is a list of the known emissions points comprising Emissions Unit 010, Solid Fuel Yard – Fugitive Emissions, and Emissions Units 029 and 030.

ADDITIONAL CHANGE REQUESTED BY TEC

TEC also proposed to modify Specific Condition No. 1 of Construction Permit 0570039-025-AC (refer to attached DRAFT Subsection H, specific condition H.8) to delete the sentence “only one material will be transloaded at a time”.

The requested change was not made at this time because it contradicts the enforceable condition from the air construction permit and would require the Department to process a construction permit modification. Furthermore, the applicant did not provide reasonable assurance that the multiple products can be transloaded simultaneously while meeting the permitted visible emissions standards that presently require testing while transloading one product at a time.

TEC can request to demonstrate its ability to comply with the visible emissions standards while transloading multiple products. After such demonstration, TEC can submit a request for a construction permit modification with a description of the reasonable precautions to comply with the visible emissions standards.

COMMENTS FROM COMPLIANCE AUTHORITY

Initial testing requirements and use of tarps on trucks: Some minor changes were made as a result of comments received since the distribution of the public notice package on July 31, 2007, that included the Draft Statement of Basis. They are based on comments from the Compliance Authority, which is the Hillsborough County Environmental Protection Commission (HCEPC).

HCEPC noted that TEC has not yet conducted visible emissions testing for some of the transloading scenarios (emissions points FH-074a PET and FH-074b COAL) since the air construction (AC) permit was issued on October 31, 2006. Also, they noted that a condition in the AC permit requiring use of tarps on trucks involved in transloading needs to be rolled into the Title V Permit.

The Department included the language in Specific Condition H.10 from the underlying AC permit that already required initial emissions tests for all of the scenarios. Inclusion of that original language obviates the need for a separate compliance plan for the required initial testing of emissions points FH-074a PET and FH-074b COAL. The AC permit language requiring the tarps on trucks is now included in Specific Condition 8, Unconfined Emissions of Particulate Matter within the Facility-Wide subsection of the permit.

CONCLUSION

This project, Title V air operation permit revision No. 0570039-028-AV, revises Title V air operation permit No. 0570039-017-AV, which was effective January 1, 2005. This Title V air operation permit revision is issued under the provisions of Chapter 403, F.S., and Chapters 62-4, 62-210 and 62-213, F.A.C. In accordance with the terms and conditions of this permit, the above named permittee is hereby authorized to operate the facility as shown on the application and approved drawings, plans, and other documents on file with the Department.

Tampa Electric Company
Big Bend Station
Facility ID No.: 0570039
Hillsborough County

Title V Air Operation Permit Revision

FINAL Permit No.: 0570039-028-AV
Revision of Permit No.: 0570039-017-AV

Permitting Authority:

State of Florida
Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
Permitting South Section

Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Telephone: 850/488-0114
Fax: 850/921-9533

Compliance Authority:

Environmental Protection Commission
of Hillsborough County
3629 Queen Palm Drive
Tampa, Florida 33619
Telephone: 813/627-2600
Fax: 813/627-2660

Title V Air Operation Permit Revision
FINAL Permit No.: 0570039-028-AV

Table of Contents

Section	Page Number
Placard Page	1
I. Facility Information	2 - 4
A. Facility Description.	
B. Summary of Emissions Unit ID Nos. and Brief Descriptions.	
C. Relevant Documents.	
II. Facility-wide Conditions	5 - 7
III. Regulated Emissions Units Conditions.....	8 - 79
A. Steam Generators Units Nos. 1, 2, & 3	9 - 18
B. Steam Generator Unit No. 4 (and No. 3 in integrated mode).....	19 - 36
C. Combustion Turbine.....	37 - 39
D. Flyash Handling and Storage.....	40 - 42
E. Flyash Silo No. 3.....	43
F. Limestone Handling and Storage.....	44
G. Coal Bunkers with Roto-Clones.....	45 - 46
H. Solid Fuel Yard.....	47 - 50
I. Surface Coating of Miscellaneous Metal Parts.....	50 - 51
J. Abrasive Blasting.....	52 - 53
K. Surface Coating of Ships.....	54 - 64
L. Limestone Handling System for FGD System for Units 1 & 2.....	65 - 67
M. Lime Silo for Wastewater Treatment Plant for the Chloride Bleed Stream....	68 - 69
N. Common Conditions.....	71 - 75
O. Coal Residual Storage and Transfer.....	76
IV. Acid Rain Part.....	77 - 80



Florida Department of Environmental Protection

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Lt. Governor
Michael W. Sole
Secretary

Permittee:

Tampa Electric Company
6944 US HWY 41
Apollo Beach, FL 33572-9200

FINAL Permit No.: 0570039-028-AV

Facility ID No.: 0570039

SIC Nos.: 49, 4911

Project: Title V Air Operation Permit Revision

This permit revision is for the purpose of incorporating the terms and conditions of the air construction permit, No. 0570039-025-AC for the transloading of coal (except residual coal), petcoke and/or slag to off site facilities. This permit is for the operation of the Tampa Electric Company (TEC) Big Bend Station. This facility is located at Big Bend Road, North Ruskin, Hillsborough County; UTM Coordinates: Zone 17, 361.9 km East and 3075.0 km North; Latitude: 27° 47' 36" North and Longitude: 82° 24' 11" West.

This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. 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 permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

DOCUMENT III.I.3 - PROCEDURES FOR STARTUP AND SHUTDOWN UNITS 1 - 4

DOCUMENT III.I.4 - OPERATION AND MAINTENANCE PLAN (version dated June 2004)

40 CFR 60 Subpart A - General Provisions

40 CFR 63 Subpart A - General Provisions modified for Subpart II

40 CFR 63 Subpart II - § 63.782 Definitions

40 CFR 63 Subpart II - Figure 1. Flow diagram of compliance procedures

40 CFR 63 Subpart II - TABLE 2 VOLATILE ORGANIC HAP (VOHAP) LIMITS FOR MARINE COATINGS

40 CFR 63 Subpart II - TABLE 3 SUMMARY OF RECORDKEEPING & REPORTING REQUIREMENTS

40 CFR 63 Subpart II - APPENDIX A VOC DATA SHEET

40 CFR 63 Subpart II - APPENDIX B

DEP Form No. 62-210.900(1)(a)

Consent Final Judgement (DEP vs. TEC) dated December 6, 1999

Phase II NOx Compliance Plan

Phase II NOx Averaging Plan

Consent Decree (U.S. vs. TEC) dated February 29, 2000; amended October 4, 2000.

TEC Big Bend Station Unit 3 Corrective Action Plan - EPC Case No. 00-1223CCG0039

EPA letter of approval of two plans for control of particulate matter; dated June 19, 2003

TABLE 297.310-1, CALIBRATION SCHEDULE (version dated 10/07/96)

FIGURE 1 - SUMMARY REPORT-GASEOUS AND OPACITY EXCESS EMISSIONS AND

MONITORING SYSTEM PERFORMANCE REPORT (version dated 7/96)

APPENDICES listed in Section II, Specific Condition No. 1

Revision Effective Date: November 19, 2007

Renewal Effective Date: January 1, 2005

Renewal Application Due Date: December 31, 2008

Expiration Date: December 31, 2009

Joseph Kahn, Director,
Division of Air Resource Management

Section I. Facility Information.

Subsection A. Facility Description.

TEC Big Bend is a nominal 2,028 MW electric generation facility. This facility consists of four steam boilers (Units Nos. 1 through 4); four steam turbines; three simple-cycle combustion turbines (CT Nos. 1, 2, and 3); solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities, and fuel oil storage tanks. Units No. 1, 2, 3, and 4 have nominal maximum heat inputs of 4037, 3996, 4115 and 4330 million BTU per hour, respectively. Units No. 1 through 4 are fired with coal and with petcoke in a mixture with coal up to 20.0% petcoke/80.0% coal (by weight), or a 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. The combustion turbines are fired with No. 2 distillate fuel oil. In addition, there is a ship surface coating operation.

Also included in this permit are miscellaneous unregulated emissions units and insignificant emissions units and/or activities.

Based on the initial Title V permit application received June 14, 1996, this facility is a major source of hazardous air pollutants (HAPs).

Overview of the facility's operation:

Solid fuel is unloaded from ship/barge into the solid fuel yard, the blending bins or directly to the tripper room via belt conveyors. Solid fuel from the piles is loaded onto belt conveyors using a rail mounted or mobile reclaimer. The solid fuel is then belt conveyed to the blending bins, which consists of six storage bins, where the solid fuel may be blended for use at the plant, or transloaded into trucks for shipment off site. Particulate matter (PM) emissions from the conveyors in the blending bins are controlled by 4 rotoclones, one at the conveyor drop and one for every 2 bins. Blending bins can either feed the transloader, or solid fuel can be conveyed, via 2 parallel belts (T1, T2) to 2 crushers (each belt has a crusher), or diverted directly to the tripper room. PM emissions from the 2 crushers and transfer tower are controlled by 2 rotoclones.

From the tripper room 2 trippers bunker the solid fuels into 4 solid fuel bunkers. Each unit has its own respective bunker. From the bunkers, the solid fuel is gravity fed into 14 mills, and then fed into the boilers. There are 3 ball mills, each for Unit Nos. 1 – 3, and 5 bowl mills for Unit No. 4. From the mills, the solid fuel is pneumatically fed into classifiers, two for each mill on Unit Nos. 1-3 and one for each mill on Unit No. 4 for a total of 23 classifiers, and then into the respective boiler.

PM emissions from Boiler Nos. 1- 4 are controlled by individual Electrostatic Precipitators (ESPs). Unit Nos. 1- 4 SO₂ emissions are controlled by FGD scrubber systems. When Unit Nos. 1-3 burn petroleum coke, the exhaust gases, following particulate matter removal by the units' ESPs, will be routed to the inlet of the flue gas desulfurization (FGD) system scrubber. In the integrated mode, Unit No. 3 will meet the same sulfur dioxide emissions limitations as Unit No. 4. The FGD scrubber will continue to treat the exhaust gas from Unit No. 4. The FGD scrubber outlet stream, consisting of the combined Unit No. 3 and Unit No. 4 treated exhaust, will then be split and discharged through stacks CS002 and CS003.

Fly ash from Units No. 1 and No. 2 is vented into Fly Ash Silo #1 which is controlled by a baghouse. Fly ash from Unit No. 3 is vented into Silo #2, which can also receive fly ash from Units No. 1 and 2. Fly ash from Unit No. 4 is vented into Silo #3. The fly ash from each silo is then loaded into trucks and transported off site, while the bottom ash from Unit No. 4 is conveyed across Big Bend Road south of the Big Bend facility to a settling pond. Each fly ash silo is controlled by a baghouse.

The byproduct gypsum is conveyed to the east side of the plant for dewatering and transporting off site. Limestone is unloaded to an underground hopper conveyor belt system to the limestone storage building on the east side of the by-product gypsum area. From the storage building, limestone is belt conveyed into 3 storage silos and then gravity fed into the mill room. Three rotary mills grind the limestone and mix it with water to form a slurry that is stored in 3 storage tanks for use in the FGD. The slurry is then pumped to the 4 reaction tanks of Units 1- 4 scrubbers that are located directly south of and adjacent to the absorption towers of the FGD scrubber. Gypsum is sold and transported offsite and can be stored south of Big Bend Road prior to offsite removal.

There are 3-combustion turbines (CT) manufactured by Westinghouse. They are all fired on No. 2 fuel oil. CT No. 1 is near the plant and CT Nos. 2 and 3 are on the north side of the property. There is a large No. 2 fuel oil storage tank near CT Nos. 2 and 3 and a small day tank near CT No. 1.

Subsection B. Summary of Emissions Unit ID Nos. and Brief Descriptions.

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-001	Unit No. 1 Steam Generator
-002	Unit No. 2 Steam Generator
-003	Unit No. 3 Steam Generator
-004	Unit No. 4 Steam Generator
-005	Combustion Turbine No. 2
-006	Combustion Turbine No. 3
-007	Combustion Turbine No. 1
-008	Fly Ash Silo No. 1 Baghouse
-009	Fly Ash Silo No. 2 Baghouse
-010	Solid Fuel Yard, Fugitive Emissions
-011	Truck Unloading of Limestone
-012	Limestone Silo A with one baghouse and one backup baghouse
-013	Limestone Silo B with one baghouse and one backup baghouse
-014	Fly Ash Silo No. 3 Baghouse
-015	Unit No. 1 Coal Bunker
-016	Unit No. 2 Coal Bunker
-017	Unit No. 3 Coal Bunker
-018	Flyash Silo No. 1 Truck Loadout
-019	Flyash Silo No. 2 Truck Loadout
-020	Drops from limestone handling conveyors LE, LF, and LG and silo C belt feeder with baghouse
-021	Silo C with one baghouse

E.U. **Subsection B. Summary of Emissions Unit ID Nos. and Brief Descriptions.**

<u>ID No.</u>	(continued) <u>Brief Description</u>
-022	Lime silo with one baghouse for the waste water treatment plant for the chloride bleed stream
-023	Limestone Handling Conveyor LB to Conveyor LC with baghouse Limestone Handling Conveyor LD to Conveyor LE with baghouse
-025	Limestone Storage and Handling Fugitive Emissions
-026	Fly Ash Handling and Storage Fugitive Emissions from Unit Nos. 1-3 (all except silos)
-027	Fly Ash Silo No. 3 Truck Loadout
-028	Fly Ash Handling System Fugitive Emissions from Unit No. 4
-029	Cyclone collectors for fuel blending bins (FH-032 and FH-035)
-030	Cyclone collectors for fuel crushers (FH-048 and FH-049)
-032	Surface coating of miscellaneous metal parts
-033	Abrasive Blast Booth with baghouse
-034	Abrasive Blast Media Storage with baghouse
-035	Surface coating of ships
-037	Coal Residual Storage Building
-038	Coal Residual Transfer System
-039	Unit No. 4 Coal Bunker
-036	Unregulated Emissions Units and/or Activities

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History

These documents and related correspondence are on file with the permitting authority:

Initial Title V Permit issued December 28, 2000.

Title V Permit Revision issued August 15, 2001.

Form dated November 5, 2002, changing the Responsible Official.

Letter dated November 12, 2003, adding an Alternate Designated Representative.

Application for Air Construction Permit dated December 31, 2003.

Application for a Title V Air Operation Permit Revision received January 16, 2004.

Application for Air Construction Permit dated May 18, 2004.

Application for a Title V Air Operation Permit Revision received January 16, 2004

Additional information dated September 24, 2004.

Big Bend Generating Station Best Operating Practices for Particulate Matter; dated September 2001

Big Bend Generating Station Best Available Control Technology for Particulate Matter; revised October 2002.

Air Construction Permit No. 0570039-025-AC dated October 31, 2006.

Title V Permit Revision No. 0570039-028-AV effective November 18, 2007.

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. The following attached Appendices are part of the permit

Appendix F, Solid Fuel Yard Fugitive Emissions

Appendix U-1, List of Unregulated Emissions Units and/or Activities

Appendix I-1, List of Insignificant Emissions Units and/or Activities

Appendix SS-1, Stack Sampling Facilities (version dated 10/07/96)

Appendix CAM, Compliance Assurance Monitoring

APPENDIX TV-6, TITLE V CONDITIONS

{Permitting note: APPENDIX TV-6, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}

2. Not federally enforceable. General Pollutant Emission Limiting 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.

[Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard.

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). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.

[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

{Permitting Note: Although the Permittee is not required to perform a visible emissions compliance test to demonstrate compliance with the facility-wide limitations annually or before renewal, if the Department believes that the general visible emissions standard is being violated, the Department may require that the owner or operator perform a visible emissions compliance test per Chapter 62-297.310(7)(b), Special Compliance Tests. In addition, Department personnel who are certified to perform visible emissions tests may determine compliance with the general visible emissions standard.}

4. Prevention of Accidental Releases (Section 112(r) of CAA).

a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
P.O. Box 1515
Lanham-Seabrook, Maryland 20703-1515
Telephone: 301/429-5018

and,

b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.

[Rule 62-213.440(1), F.A.C.]

6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.

[Rules 62-213.440(1), 62-213.430(6) and 62-4.040(1)(b), F.A.C.]

7. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. Nothing was deemed necessary and ordered at this time.

[Rule 62-296.320(1)(a), F.A.C.]

8. Emissions of Unconfined Particulate Matter. Unconfined particulate matter emissions that may result from operations include: vehicular traffic on paved and unpaved roads; wind-blown dust from yard areas; and periodic abrasive blasting. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (see Condition 57. of APPENDIX TV-6, TITLE V CONDITIONS):

The following requirements are “not federally enforceable”: The following techniques will be used to prevent unconfined particulate matter emissions on an as needed basis:

- a. Chemical or water application to: unpaved roads and unpaved yard areas;
- b. Paving and maintenance of roads, parking areas and yards;
- c. Landscaping or planting of vegetation;
- d. Confining abrasive blasting where possible; and
- e. Other techniques, as necessary.
- f. Trucks used to transport coal, petcoke or slag shall utilize tarps at all times except when loading/unloading.

[Rule 62-296.320(4)(c)2., F.A.C.; and, proposed by the applicant in the initial Title V permit application received June 14, 1996.]

9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.

[Rule 62-213.440, F.A.C.]

10. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.

[Rules 62-213.440(3) and 62-213.900, F.A.C.]

{Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-6, TITLE V CONDITIONS)}

11. The Consent Final Judgement (DEP vs. TEC) dated December 6, 1999; and the Consent Decree (U.S. vs. TEC) dated February 29, 2000, including the October 4, 2000 amendment; are attached hereto and made a part of this permit. The permittee shall comply with the Consent Final Judgement and the Consent Decree. Wherever the Consent Decree conflicts with this permit the terms and conditions of the Consent Decree control. Upon expiration of the Consent Decree the Title V permit shall be modified to incorporate any terms and conditions that are deemed necessary by the permitting authority for the continued operation of the facility.

[Rules 62-4.070(3)&(5) and 62-213.440, F.A.C.]

12. Unless otherwise stated in a specific condition, averaging times for specified emission standards are based on the run time of the test method(s) used for determining compliance.

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

13. a. The permittee shall submit all compliance related notifications and reports required of this permit to the Environmental Protection Commission of Hillsborough County:

Environmental Protection Commission
of Hillsborough County
3629 Queen Palm Drive
Tampa, Florida 33619
Telephone: 813/627-2600
Fax: 813/627-2660

b. The permittee shall provide timely notification to the Environmental Protection Commission of Hillsborough County prior to implementing any changes that may result in a modification to this permit. The changes may include, but are not limited to, the following, and may also require prior authorization before implementation:

1. Alteration or replacement of any equipment* or parameter listed in the Facility or Subsection descriptions.
2. Installation or addition of any equipment* which is a source of air pollution.
3. Any changes in the method of operation, raw materials, products of fuels.

*Not applicable to normal maintenance and repairs, and vehicles used for transporting material.

[Rules 62-4.070(3) and 62-210.300, F.A.C.]

14. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch, Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303
Telephone: 404/562-9155, Fax: 404/562-9163

15. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after

reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), F.A.C.]

Section III. Regulated Emissions Units Conditions.

Subsection A. Steam Generators Units Nos. 1, 2, & 3

This section addresses the following Regulated Emissions Units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
-001	Unit No. 1 Steam Generator
-002	Unit No. 2 Steam Generator
-003	Unit No. 3 Steam Generator

Descriptions. The fuel fired in Units No. 1, No. 2, and No. 3 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.

Unit No. 1 is a fossil fuel fired steam boiler generating unit rated at 4037 MMBtu/hour with an electrical generating capacity of 445 MW. It is a "wet" bottom utility boiler manufactured by Riley Stoker Corporation. Unit No. 1 began commercial operation in 1970.

Unit No. 2 is a fossil fuel fired steam boiler generating unit rated at 3996 MMBtu/hour with an electrical generating capacity of 445 MW. It is a "wet" bottom utility boiler manufactured by Riley Stoker Corporation. Unit No. 2 began commercial operation in 1973.

Unit No. 1 and Unit No. 2 share two common stacks (Stacks CS001 and CS0W1). Particulate emissions generated during the operation of the units are controlled by dry electrostatic precipitators (ESPs) manufactured by Western Precipitator Division, Joy Manufacturing Corporation. ESP control efficiency is 99.7%. Whenever either unit is fired with petcoke in any amount up to the allowable ratio (20% petcoke/80% coal, by wt.), its flue gases must be directed from its ESP to the FGD system and then to stack CS0W1. Otherwise, if petcoke is not fired, the flue gases may bypass the FGD system and stack CS0W1, and the flue gases are routed from the ESP directly to stack CS001.

Unit No. 3 is a fossil fuel fired steam boiler generating unit rated at 4115 MMBtu/hour with an electrical generating capacity of 445 MW. It is a "wet" bottom utility boiler manufactured by Riley Stoker Corporation. Operation of this unit may include diverting all of the flue gas into the existing Big Bend Unit No. 4 flue gas desulfurization (FGD) system for sulfur dioxide emission reduction. Sulfur dioxide emissions that are generated and not diverted through the Unit No. 4 FGD system are uncontrolled. Particulate matter emissions generated during the operation of the unit are controlled by a dry electrostatic precipitator (ESP) manufactured by Research-Cottrell, Inc. The ESP control efficiency is 99.7%. Unit No. 3 began commercial operation in 1976.

{Permitting note: Units No. 1, No. 2, and No. 3 are regulated under the federal Acid Rain Program for Phase II SO₂ and NO_x, adopted and incorporated by reference in Rule 62-204.800, F.A.C.; and regulated under 62-296.405, F.A.C. These units were also formerly regulated under the federal Acid Rain Program as Phase I SO₂ substitution units.}

The following specific conditions apply to the emissions units listed above:

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

A.1. Capacity. The maximum permitted heat input rate for each unit is as follows:

<u>Unit No.</u>	<u>MMBTU/hr</u>
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1	4037
2	3996
3	4115

[Rules 62-4.160(2), 62-210.200(PTE) and 62-296.405, F.A.C.]

{Permitting note: The heat input limitations have been placed in this permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular recordkeeping, other than annual, is not required for heat input. Instead the owner or operator is expected to determine heat input whenever emission testing is required, to demonstrate at what percentage of the rated capacity that the unit was tested. Rule 62-297.310(5), F.A.C., requires measurement of the process variables for emission tests. Such heat input determination may be based on measurements of fuel consumption by various methods to calculate average hourly heat input during the test. Annual heat input must be calculated in order to determine annual emissions of pollutants whose limits are based upon heat input.}

A.2. Methods of Operation - Fuels.

a. Normal operation: The fuel fired in Units No. 1, No. 2, and No. 3 shall consist 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. In any case, the petroleum coke content of any fuel blend shall not exceed 20% by weight.. The vanadium content of the petroleum coke fired shall not exceed 2660 ppm vanadium. The ash content of the petroleum coke fired shall not exceed 0.76% by weight on a dry basis. The permittee shall maintain and submit to the Department, and to the Environmental Protection Commission of Hillsborough County, on an annual basis for the years 2001, 2002, 2003, 2004, and 2005 data demonstrating that removal of the sulfur content limit and the revision of the vanadium content limit in the petroleum coke fired did not result in a significant increase in the representative actual annual emissions of any regulated pollutant.

b. Other operation:

i. In addition to the fuels allowed to be burned during normal operation, each unit may also burn new No. 2 fuel during startup, shutdown, flame stabilization, and during the start of a mill on an already operating unit.

ii. Evaporation of up to 150,000 gallons per year, total at the facility, is allowed of non-hazardous, but potentially HAP-emitting, mineral acid solution boiler chemical cleaning waste which was generated on site.

c. Beneficiated, or refined, coal residual: The total amount of beneficiated, or refined, coal residual fired at Big Bend Station (all Unit Nos. 1-4 combined) shall be limited to 500 tons per day. The beneficiated, or refined, coal residual results from using the beneficiated process, described in permit application 0570039-012-AC, to wash and screen the raw coal residual to remove fines and oversized materials. This beneficiation process shall be performed at Polk Power Station, not Big Bend Station.

d. Raw coal residual: The total amount of raw coal residual fired at Big Bend Station (all Unit Nos. 1-4 combined) shall be limited to 200 tons per day. The raw coal residual is a by-product of the gasification of coal at the Polk Power Station. At the time of the issuance of permit 0570039-012-AC on October 4, 2001, there were approximately 100,000 tons of raw coal residual stored at Polk Power Station. Once this raw coal residual pile has been fired, TEC shall only fire raw coal residual in the event of a significant beneficiation process malfunction. TEC shall document all beneficiation process malfunctions and record the amount of raw coal residual, if any, fired at Big Bend Station. These records

should be kept on site at Big Bend and made readily available to the Department and the Environmental Protection Commission of Hillsborough County upon request.

[Rules 62-4.070(3), 62-4.160(2), 62-210.200, and 62-213.440(1), F.A.C.; 0570039-012-AC]

{Permitting note: "Flame stabilization" is defined as the use of new No. 2 fuel oil to stabilize a flame during times of unexpected poor coal quality or equipment failure such as coal piping pluggage. Flame stabilization due to poor coal quality occurs when coal is wet or does not provide the necessary heat to maintain a stable flame. In this situation, new No. 2 fuel oil is combusted to provide the additional required heat input to maintain a stable flame. Flame stabilization due to equipment failure occurs when coal piping is plugged, or equipment is otherwise damaged, that results in an inconsistent amount of coal reaching the burners. Under certain conditions, this may result in the burners intermittently seeing large amounts of fuel at one time, causing a potentially explosive flame "puff". In this situation, new No. 2 fuel oil must be used for stabilization to prevent flame "puffing" and ensure safe operation. Combustion of No. 2 fuel oil is also necessary during periods of load change to initialize and stabilize the flame until coal flow to the burners reaches steady state. As defined in 62-210.700(3), F.A.C., Load change occurs when the operational capacity of a unit is in the 10 to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.}

A.3. FGD Operation Required for Petcoke and Coal Residual:

- a. Whenever emissions Unit No. 1 or No. 2 is fired with petcoke in any amount up to the allowable percentage, or any amount of coal residual, its flue gases shall be directed to FGD system for Units No. 1 and No. 2.

[Permit Nos. 0570039-003-AC, 0570039-004-AC, and 0570039-012-AC]

{Note: The owner or operator may operate each emissions unit without directing its emissions to the FGD system whenever neither petcoke nor coal residual is being fired in the emissions unit.}

{Note: The excess emissions provisions of specific condition A.11. of this permit are also applicable to the FGD system operation.}

- b. The permittee is allowed to divert and integrate all of Unit No. 3 flue gas for purposes of treating that flue gas in the existing Unit No. 4 flue gas desulfurization (FGD) system. At all times while firing any permitted amount of petroleum coke or coal residual, Unit No. 3 shall operate only in the integrated mode except during startups, shutdowns, and/or malfunctions during all of which best operational practices shall be employed including the cessation of petroleum coke and/or coal residual bunkering.

[Rule 62-4.070(3), F.A.C., 40 CFR 60.40a; and Permit Nos. PSD-FL-040 and 0570039-012-AC]

A.4. Limit on Petcoke Bunkering: The owner or operator at any given time shall not bunker more than the amount of petcoke that may be fired in each emissions Unit No. 1 or No. 2 in one day. [0570039-003-AC and 0570039-004-AC]

[Note: This condition is intended to limit possible excess emissions in the event of an unexpected breakdown of the FGD system that requires its shutdown while either emissions unit is firing petcoke.]

A.5. Hours of Operation. Unit No. 1, Unit No. 2, and Unit No. 3 are each allowed to operate continuously, i.e., 8760 hours/year.

[Rule 62-210.200, F.A.C., Definitions (PTE)]

EMISSION LIMITATIONS AND STANDARDS

A.6. Except as provided in Specific Condition No. A.11., visible emissions from each unit shall not exceed 20% opacity except for one six-minute period per hour during which opacity shall not exceed 27%.

[Rule 62-296.405(1)(a), F.A.C.]

A.7. Except as provided in Specific Condition No. A.11., the particulate matter emission rate for each unit shall not exceed 0.03 pounds per million BTU heat input. {Permitting note: The averaging time for the emissions standard in this condition shall be equal to the cumulative run time required by the specified test method.}

[Rule 62-296.405(1)(b), F.A.C.; Consent Final Judgment (DEP vs. TEC) dated December 6, 1999; Consent Decree (U.S. Vs. TEC) dated February 29, 2000; and EPA letter of approval of two plans (BOP and BACT) for control of particulate matter dated June 19, 2003]

A.8.

i. Unit Particulate Matter Emission Limits: Based on the maximum permitted heat input rates listed in Specific Condition A.1., the maximum permitted particulate matter annual emission rate for each unit is as follows:

<u>Unit No.</u>	<u>tons/yr</u>
1	530
2	525
3	541

In the event that a maximum permitted heat input rate for a unit is reduced, the maximum annual permitted particulate matter emission rate for that unit shall also be reduced accordingly.

[Rule 62-296.700(4)(b)1., F.A.C.; Consent Final Judgment (DEP vs. TEC) dated December 6, 1999; Consent Decree (U.S. Vs. TEC) dated February 29, 2000; and EPA letter of approval of two plans (BOP and BACT) for control of particulate matter dated June 19, 2003]

ii. Facility-wide Particulate Matter Emission Limit: In order to provide reasonable assurance that a significant net emission rate increase will not occur as a result of combusting raw and beneficiated coal residual at Big Bend, the combined emissions from Steam Generator Units 1-4 shall not exceed an annual emissions cap of 2,767 tons per year of PM/PM₁₀. This cap corresponds to the average emissions of the years 1999 and 2000. Any relaxation in this limit that increases the facility's potential to emit by at least 1 ton of pollutant per year will result in a reevaluation of PSD applicability for the facility as though construction had not yet commenced at the facility.

[Rule 62-212.400(2)(g) and Permit No. 0570039-012-AC]

A.9.

i. Unit Sulfur Dioxide Emission Limits. {Permitting Note: The Consent Final Judgment (DEP vs. TEC) dated December 6, 1999; and the Consent Decree (U.S. vs. TEC) dated February 29, 2000, including the October 4, 2000 amendment; which are part of this permit, supercede this specific condition. Wherever the Consent Decree conflicts with this permit condition, the Consent Decree takes precedence.}

a. Units No. 1, No. 2, and No. 3, each shall not emit more than 6.5 pounds of sulfur dioxide per million BTU heat input on a two-hour average; nor shall Units No. 1, No. 2, and No. 3, in total, emit

more than 31.5 tons per hour of sulfur dioxide on a three-hour average and 25 tons per hour of sulfur dioxide on a 24-hour block average (midnight to midnight).

[Rules 62-296.405(1)(c)2.b. and 3., F.A.C.; and Rule 62-204.240(1), F.A.C.]

b. Integrated Operation - While in the integrated mode Units No. 3 and 4 shall meet the pounds per million Btu and percent reduction sulfur dioxide limitations that are applicable to Unit No. 4. (Specific Conditions B.7. and B.8.). Unit 3 will be operated in this integrated mode except during unit or FGD startups, shutdowns, maintenance and/or malfunctions, during all of which best operational practices shall be employed, including the cessation of bunkering fuels that would emit higher than 6.5 lb SO₂ per MMBtu.

c. Units No. 1 and No. 2, in total, shall not emit more than 16.5 tons per hour of sulfur dioxide on a 24-hour block average.

d. Unit No. 3 shall not emit more than 8.5 tons per hour of sulfur dioxide on a twenty-four hour block average.

e. While scrubbing sulfur dioxide emissions, the following table lists the sulfur dioxide emissions limits (lbs/hr) for six different operating scenarios:

Operating Scenario	Operating Mode, Emission Limits (lbs/hour)			Averaging Period (Calendar day basis)
	Unit 1	Unit 2	Unit 3	
1	Scrubbed, 3310	Scrubbed*, 3277	Unscrubbed*, 14814	24 hours
2	Scrubbed, 3310	Unscrubbed, 9590	Unscrubbed, 9876	24 hours
3	Scrubbed, 3310	Scrubbed, 3277	Scrubbed, 3374	24 hours
4	Scrubbed, 3310	Unscrubbed, 11588	Scrubbed, 3374	24 hours
5	Unscrubbed, 11707	Scrubbed, 3277	Scrubbed, 3374	24 hours
6	Unscrubbed, 9689	Scrubbed, 3277	Unscrubbed, 9876	24 hours

*"Scrubbed" refers to operation while directing flue gas to the FGD system. "Unscrubbed" refers to operation while not directing flue gas to the FGD system.

[40 CFR 60.40a; Permit Nos. PSD-FL-040, 0570039-003-AC, and 0570039-004-AC; Applicant request.]

ii. Facility-wide Sulfur Dioxide Emission Limit. In order to provide reasonable assurance that a significant net emission rate increase will not occur as a result of combusting raw and beneficiated coal residual at Big Bend, the combined emissions from Steam Generator Units 1-4 shall not exceed an annual emissions cap of 71,810 tons per year of SO₂. This cap corresponds to the average emissions of the years 1999 and 2000. Any relaxation in this limit that increases the facility's potential to emit by at least 1 ton of pollutant per year will result in a reevaluation of PSD applicability for the facility as though construction had not yet commenced at the facility.

[Rule 62-212.400(2)(g) and Permit No. 0570039-012-AC]

A.10. Unit No. 3 shall not emit more than 0.70 of a pound of nitrogen oxides (expressed as NO₂) per million BTU heat input based upon a 30-day rolling average. [Rule 62-296.405(1)(d)4. and Rule 62-296.405(1)(e)4., F.A.C.]

A.11. Excess Emissions.

(1) Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department or the Environmental Protection Commission of Hillsborough County (EPCHC) for longer duration.

(2) Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.

(3) Excess emissions from existing fossil fuel steam generators resulting from boiler cleaning (soot blowing) and load change shall be permitted provided the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed Number 3 of the Ringelmann Chart (60 percent opacity), and providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions shall be minimized. A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more. Visible emissions above 60 percent opacity shall be allowed for not more than 4, six (6)-minute periods, during the 3-hour period of excess emissions allowed by this specific condition A.11.(3), for boiler cleaning and load changes, at units which have installed and are operating continuous opacity monitors. Particulate matter emissions shall not exceed an average of 0.3 lbs. per million BTU heat input during the 3-hour period of excess emissions allowed by this specific condition A.11.(3).

(4) 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.

(5) In case of excess emissions resulting from malfunctions, TECO shall notify the EPCHC 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 permitting authority or the EPCHC.

[Rule 62-210.700, F.A.C.]

TEST METHODS AND PROCEDURES

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.12. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the TEC shall have formal compliance tests conducted on each Steam Generator Unit. Unit No. 1, Unit No. 2, and Unit No. 3 shall each be individually stack tested for particulate matter and visible emissions, under both sootblowing and non-sootblowing operation conditions. When testing in CS0W1 or when testing in CS001, Unit No. 1 shall not be in operation during the compliance testing of Unit No. 2, and Unit No. 2 shall not be in operation during the compliance testing of Unit No. 1, but when testing in the ductwork between CS001 and the scrubber tower inlet, Unit No. 1 may operate during the compliance testing of Unit No. 2 and Unit No. 2 may operate during the compliance testing of Unit No. 1. Testing of Unit No. 3 emissions shall be prior to their mixing with the exhaust from the scrubber for Unit No. 4.

[Rules 62-297.310(7)(a)2. and 4., and 62-4.070(3), F.A.C.]

A.13. The test method for visible emissions shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C. In lieu of Method 9 testing, a transmissometer utilizing a 6-minute block average for opacity measurement may be used, provided such transmissometer is installed, certified, calibrated, operated and maintained in accordance with the provisions of 40 CFR Part 75.

[Rule 62-296.405(1)(e)1., F.A.C., and request of applicant.]

A.14. The test methods for particulate emissions shall be EPA Methods 17, 5, 5B, or 5F, incorporated and adopted by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet. EPA Method 5 may be used with filter temperature at no more than 320 degrees Fahrenheit. For EPA Method 17, stack temperature shall be less than 375 degrees Fahrenheit. The owner or operator may use EPA Method 5 to demonstrate compliance. EPA Method 3 or 3A with Orsat analysis shall be used when the oxygen base F-factor computed according to EPA Method 19 is used in lieu of heat input. Acetone wash shall be used with EPA Method 5 or 17.

[Rule 62-296.405(1)(e)2., F.A.C.]

A.15. Compliance testing for particulate matter emissions and visible emissions may be conducted either: (a) without fly ash re-injections occurring, or (b) while fly ash collected by the electrostatic precipitator is being re-injected into the boiler at a rate which is representative of the maximum anticipated fly ash re-injection rate. If the most recent particulate and visible emission compliance tests were conducted without fly ash re-injection occurring, and fly ash re-injection occurs for any reason other than a malfunction, then the results from new particulate and visible emissions compliance tests, conducted while fly ash collected by the precipitator is being re-injected into the boiler at a rate which is representative of the maximum anticipated fly ash re-injection rate, shall be submitted to the EPCHC within 60 days of the date that such fly ash re-injection occurred. The EPCHC may, for good cause shown, grant an extension of the 60-day time limit on a case-by-case basis.

[AO29-219924, AO29-179912, and AO29-179911]

A.16. Petcoke Sulfur Content: Until January 1, 2006, the owner or operator shall measure the sulfur content of representative samples of all petcoke received using appropriate ASTM methods to demonstrate compliance with the sulfur content limit of this permit. [Permit Nos. 0570039-003-AC & 0570039-004-AC]

A.17. Monitor Petcoke Usage: The owner or operator shall operate and maintain equipment to record and calculate the weight percentage of petcoke and coal bunkered and fired in each emissions unit, to verify compliance with the bunkering limit and the percentage limitation on petcoke usage of this permit.

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

A.18. The permittee shall demonstrate compliance with the sulfur dioxide limits in Specific Condition A.9. by means of continuous emissions monitoring systems (CEMS). In addition to any other requirements associated with the operation and maintenance of these CEMS (i.e., Acid Rain requirements), operation of the CEMS shall be in accordance with the requirements listed in Specific Condition A.19. The annual calibration RATA associated with these CEMS may be used in lieu of the required annual EPA Reference Method 6, as long as all of the requirements of Rule 62-297.310, F.A.C., are met (i.e., prior test notification, proper test result submittal, etc.). [Applicant request.]

A.19. Continuous Monitor Performance Specifications. If continuous monitoring systems are required by rule or are elected by the permittee to be used for demonstrating compliance with the standards of the Department, they must be installed, maintained and calibrated, either:

(a) in accordance with the EPA performance specifications listed below. These Performance Specifications are contained in 40 CFR 60, Appendix B, and are adopted by reference in Rule 62-204.800, F.A.C.

(1) [Reserved]

(2) Performance Specification 2--Specifications and Test Procedures for SO₂ Continuous Emission Monitoring Systems in Stationary Sources.

(3) [Reserved], Or,

(b) in accordance with the applicable requirements of 40 CFR 75, Subparts B and C. Excess emissions pursuant to Rule 62-210.700, F.A.C., shall be determined using the 40 CFR part 75 CEMS.

[Rule 62-297.520, F.A.C.; 40 CFR 75; and, Applicant request.]

A.20. Compliance with nitrogen oxides emission limit for Unit No. 3 shall be demonstrated continuously based upon a 30-day rolling average. The 30-day rolling average shall be determined by calculating the arithmetic average of all hourly emission rates for NO_x for the 30 successive boiler operating days, except for data obtained during startup, shutdown, and malfunction. The calculations shall be consistent with the equations in 40 CFR 60, Appendix A, Reference Method 19. For the purpose of calculating a 30-day rolling average, a boiler operating day is defined as a 24-hour period (between 12:01 a.m. and 12:00 midnight) during which fossil fuel is combusted in a steam operating unit for the entire 24-hours. [Permit No. AO29-179911 (July 29, 1994 amendment); 40 CFR 60.46a(g)]

A.21. The continuous emission monitors shall meet the quality assurance requirements and performance specifications contained in 40 CFR 75.

[Rule 62-296.401(1)(e)4., F.A.C.]

A.22. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.

[Rule 62-296.401(1)(e)5., F.A.C.]

A.23. For Units. No. 1, No. 2, and No. 3, TEC shall operate, calibrate, and maintain a continuous monitoring system for continuously monitoring opacity. For Unit Nos. 1-3, TECO shall also operate calibrate, and maintain a continuous monitoring system for continuously monitoring nitrogen oxides (expressed as NO₂). In addition, TEC shall operate calibrate, and maintain a continuous monitoring system for continuously monitoring sulfur dioxide for Unit Nos. 1, 2, and 3 in a manner sufficient to demonstrate compliance with the emission limits of this permit. Performance specifications, location of monitor, data requirements, data reduction and reporting requirements shall conform with the requirements of 40 CFR Part 51, Appendix P, adopted and incorporated by reference in Rule 62-204.800(2), F.A.C., and 40 CFR Part 60, Appendix B, adopted by reference in Rule 62-204.800(7), F.A.C. [Rule 62-296.401(1)(f), F.A.C.]

A.24. An oxygen or carbon dioxide continuous monitoring system shall be operated for Units No. 1-3. Measurements of oxygen or carbon dioxide in the flue gas shall be utilized to convert nitrogen oxides and sulfur dioxide continuous emission monitoring data to units of pounds per million BTU heat input for proof of compliance.

[Rule 62-296.401(1)(f)1.d., F.A.C.]

REPORTING AND RECORD KEEPING REQUIREMENTS

A.25. Records of Operation: The owner or operator shall make and maintain a daily record of operation of each emissions unit showing the date, fuel(s) used, whether flue gas was directed to the FGD system, and the duration of all startups, shutdowns and malfunctions. Records of fuel bunkering and petcoke usage (weight percent of petcoke fired) shall also be made on at least a daily basis. Data that verifies compliance with the percentage limitation on petcoke usage shall be submitted with the annual operating report. [Rule 62-4.070(3), F.A.C.]

A.26. Records of Petcoke Sulfur Content: Until January 1, 2006, the owner or operator shall maintain records of petcoke sampling and analysis results performed as required by Specific Condition A.16. of this section. [Rule 62-4.070(3), F.A.C., and permit nos. 0570039-003-AC & 0570039-004-AC]

A.27. Quarterly Reporting Requirements: The owner or operator shall submit to the Department a written report of emissions in excess of emission limiting standards of this permit for each calendar quarter. The nature and cause of the excessive emissions shall be explained. This report does not relieve the owner or operator of the legal liability for violations. All recorded data shall be maintained on file for a period of five years. Copies of all submittals shall be submitted to the Air Management Division, Hillsborough County Environmental Protection Commission. [Rules 62-4.070(3) and 62-296.405(1)(g), F.A.C.]

A.28. For each unit, TEC shall submit to the EPCHC a written report of emissions in excess of the emission limiting standards as set forth in Rule 62-296.405(1), F.A.C., for each calendar quarter. The nature and cause of the excessive emissions shall be explained. This report does not relieve TEC of the legal liability for violations. All recorded data shall be maintained on file for a period of at least 5 years. The report shall be submitted within 30 days following each calendar quarter. [Rule 62-296.405(1)(g) and Rule 62-213.440(1)(b)2.b., F.A.C.]

A.29. For Unit Nos. 1-3, gravimetric instrument data verifying that the 20.0% maximum petroleum coke content by weight has not been exceeded shall be maintained for two years and submitted to the Department and the EPCHC with each annual operating report. Also to be maintained and available for inspection shall be a record of operation showing the date, fuel used, mode of operation (integrated/non-integrated), and the duration of all startups, shutdowns and malfunctions. [Rule 62-4.070(3), F.A.C.]

A.30. Until January 1, 2006, for Unit No. 3, TEC shall maintain and submit to the Department and the EPCHC, on an annual basis, data demonstrating that the operational change of firing petcoke did not result in an emissions increase. [Rule 62-4.070(3), F.A.C.]

A.31. For Unit No. 3, TEC shall submit a quarterly report to the Department and the EPCHC within 30 days following each calendar quarter. This report shall contain the 30-day NO_x rolling average, all time periods of boiler operation as well as a statement of CEM and/or boiler malfunction, start-up or shutdown. [Permit No. AO29-179911 (July 29, 1994 amendment)]

A.32. Continuous Emission Monitoring Network and Alarms: To demonstrate compliance with emission limits that are protective of AAQS, data inputs will consist of hourly CEM data from the SO₂, flow, and CO₂ monitors for Units 1-3 at Big Bend Station. TEC will use

CEM data from common stack CS0W1 and/or CS001 to represent unit compliance with the emission limitations for each Unit 1 and Unit 2. When Unit 3 is operated in the integrated mode, TEC will use apportioned CEM data from both common stacks CS002 and CS003 to represent individual unit compliance with the emission limitations for Unit 3. In the event any monitor fails, TEC will comply with 40 CFR 75, Subpart D – Missing Data Substitution Procedures.
[Applicant request.]

A.33. Compliance Plan Verification:

1. *Frequency* – Reporting of compliance status shall be performed on a quarterly calendar basis. Reports will be due no later than 45 days following the last day of the reporting quarter.
2. *Content* – Quarterly reports will consist of:
 - a. two-hour average SO₂ emissions rate for each Units 1, 2, and 3 in lb/MMBtu;
 - b. three-hour average SO₂ emissions for Units 1-3 in ton per hour;
 - c. 24-hour average SO₂ emissions for Units 1-3 in tons per hour; and
 - d. 24-hour average SO₂ emissions for Units 1-2 and Unit 3 in tons per hour.

[Applicant request.]

A.34. These emissions units are subject to requirements contained in Consent Final Judgment (DEP vs. TEC) dated December 6, 1999 and the Consent Decree (U.S. vs. TEC) dated February 29, 2000, including the October 4, 2000 amendment.

[Permit No. 0570039-014-AC]

A.35. The first in a series of equipment installed pursuant to the Consent Final Judgment and Consent Decree for the purposes of NO_x requirements contained therein include:

- a. Steam Generator Units No. 1 – 3 are equipped with Low NO_x burners (LNB).
- b. Steam Generators Units 1 and 2 are equipped with coal and air flow monitoring equipment.
- c. Steam Generator Unit 2 is equipped with a neural network system that monitors the following parameters: excess O₂ bias, force draft fan balance bias, mill outlet temperature bias, rating damper bias, and mill bypass damper bias.

[Permit No. 0570039-014-AC]

A.36 Units 1, 2, and 3 shall be operated using the Low NO_x burners and in accordance with the operational procedures that have been developed to minimize NO_x emissions.

[Permit No. 0570039-014-AC]

A.37. These emissions units are subject to the Compliance Assurance Monitoring requirements contained in the attached APPENDIX CAM.

Subsection B. Steam Generator Unit No. 4 (and No. 3 in integrated mode)

This section addresses the following Regulated Emissions Units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
-004	Unit No. 4 Steam Generator
-003	Unit No. 3 Steam Generator, only when operated in integrated mode.

Descriptions. Unit No. 4 is a 4330 MMBTU/hour, dry-bottom tangentially fired utility boiler. The generator nameplate capacity is 486 MW. Unit No. 4 began commercial operation in 1985. Particulate matter emissions generated during the operation of the unit are controlled by a dry electrostatic precipitator (ESP) manufactured by Belco. The control efficiency of the ESP is 99.7%. Sulfur dioxide emissions are controlled by flue gas desulfurization equipment manufactured by Research-Cottrell. The fuel fired in Unit No. 4 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.

As an option, Unit No. 3 exhaust gas, following particulate matter removal by the unit's ESP, will be routed to the inlet of the Unit No. 4 flue gas desulfurization (FGD) system scrubber. In this integrated mode, Unit No. 3 will meet the same sulfur dioxide emissions limitations as Unit No. 4. The FGD scrubber will continue to treat the exhaust gas from Unit No. 4. The FGD scrubber outlet stream, consisting of the combined Unit No. 3 and Unit No. 4 treated exhaust, will then be split and discharged through stacks CS002 and CS003. Stack CS002 does *not* include a recirculation duct to return exhaust gas to the inlet of the FGD scrubber. Continuous opacity monitoring systems (COMS) will be located at the outlet of Unit No. 3 and Unit No. 4 ESPs. Continuous SO₂ and CO₂ emissions monitoring systems (CEMS) will be located in stacks CS002 and CS003. Continuous NO_x emissions monitoring systems (CEMS) will be located in the inlet ducts of each unit. These monitoring systems will be used to determine compliance with all current applicable requirements.

{Applicable regulations for Unit No. 4: 40 CFR 60 Subpart Da, and the federal Acid Rain Program, Phase II SO₂ and NO_x, adopted and incorporated by reference in Rule 62-204.800, F.A.C.; PA79-12, PSD-FL-040 and an ASP for Coal Sampling.}

The following conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

B.1. Capacity. The maximum permitted heat input rate for Unit No. 4 is 4330 MMBTU/hr.

[Rules 62-4.160(2), and 62-4.070(3), F.A.C.]

{Permitting note: The heat input limitation has been placed in this permit to identify the capacity of the unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular recordkeeping, other than annual, is not required for heat input. Instead the owner or operator is expected to determine heat input whenever emission testing is required, to demonstrate at what percentage of the rate capacity that the unit was tested. Rule 62-297.310(5), F.A.C., requires measurement of the process variables for emission tests. Such heat input determination may be based on measurements of fuel consumption by various

methods to calculate average hourly heat input during the test. Annual heat input must be calculated in order to determine annual emissions of pollutants whose limits are based upon heat input.}

B.2. Methods of Operation - Fuels.

a. Normal operation: The fuel fired in Unit No. 4 shall consist 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. In any case, the petroleum coke content of any fuel blend shall not exceed 20% by weight. The vanadium content of the petroleum coke fired shall not exceed 2660 ppm vanadium. The ash content of the petroleum coke fired shall not exceed 0.76% by weight on a dry basis. The permittee shall maintain and submit to the Department, and to the Environmental Protection Commission of Hillsborough County, on an annual basis for the years 2001, 2002, 2003, 2004, and 2005 data demonstrating that removal of the sulfur content limit and the revision of the vanadium content limit in the petroleum coke fired did not result in a significant increase in the representative actual annual emissions of any regulated pollutant.

b. Other operation:

i. In addition to the fuels allowed to be burned during normal operation, Unit No. 4 may also burn new No. 2 fuel during startup, shutdown, flame stabilization and during the start of an additional solid fuel mill on an already operating unit.

ii. Evaporation of up to 150,000 gallons per year, total at the facility, is allowed of non-hazardous, but potentially HAP-emitting, mineral acid solution boiler chemical cleaning waste which was generated on site.

c. Coal shall not be burned in Unit No. 4 unless both the electrostatic precipitator and limestone scrubber are operating properly.

d. [Reserved]

e. TEC shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values.

f. Beneficiated, or refined, coal residual: The total amount of beneficiated, or refined, coal residual fired at Big Bend Station (all Unit Nos. 1-4 combined) shall be limited to 500 tons per day. The beneficiated, or refined, coal residual results from using the beneficiated process, described in permit application 0570039-012-AC, to wash and screen the raw coal residual to remove fines and oversized materials. This beneficiation process shall be performed at Polk Power Station, not Big Bend Station.

g. Raw coal residual: The total amount of raw coal residual fired at Big Bend Station (all Unit Nos. 1-4 combined) shall be limited to 200 tons per day. The raw coal residual is a by-product of the gasification of coal at the Polk Power Station. At the time of the issuance of permit 0570039-012-AC on October 4, 2001, there were approximately 100,000 tons of raw coal residual stored at Polk Power Station. Once this raw coal residual pile has been fired, TEC shall only fire raw coal residual in the event of a significant beneficiation process malfunction. TEC shall document all beneficiation process malfunctions and record the amount of raw coal residual, if any, fired at Big Bend Station. These records should be kept on site at Big Bend and made readily available to the Department and the Environmental Protection Commission of Hillsborough County upon request.

h. No coal residual shall be fired in any Unit when the corresponding scrubber is not in operation.

[Rules 62-4.070(3), 62-4.160(2), 62-210.200, and 62-213.440(1), F.A.C.; PSD-FL-040; Power Plant Siting Certification PA 79-12; Permit No. 0570039-012-AC; Permit No. 0570039-016-AC]

{Permitting note: "Flame stabilization" is defined as the use of No. 2 fuel oil to stabilize a flame during times of unexpected poor coal quality or equipment failure such as coal piping pluggage. Flame stabilization due to poor coal quality occurs when coal is wet or does not provide the necessary heat to maintain a stable flame. In this situation, No. 2 fuel oil is combusted to provide the additional required heat input to maintain a stable flame. Flame stabilization due to equipment failure occurs when coal piping is plugged, or equipment is otherwise damaged, that results in an inconsistent amount of coal reaching the burners. Under certain conditions, this may result in the burners intermittently seeing large amounts of fuel at one time, causing a potentially explosive flame "puff". In this situation, No. 2 fuel oil must be used for stabilization to prevent flame "puffing" and ensure safe operation. Combustion of No. 2 fuel oil is also necessary during periods of load change to initialize and stabilize the flame until coal flow to the burners reaches steady state. As defined in 62-210.700(3), F.A.C., Load change occurs when the operational capacity of a unit is in the 10 to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.}

B.3. Mode of Operation. Tampa Electric Company is allowed to divert and integrate all of the flue gas from Unit No. 3 for purposes of treating that flue gas in the existing Unit No. 4 flue gas desulfurization (FGD) system.

[Rule 62-4.070(3), F.A.C., 40 CFR 60.40a, and Permit No. PSD-FL-040]

B.4. Hours of Operation. Unit No. 4 is allowed to operate continuously, i.e., 8760 hours/year.

[Rule 62-210.200, F.A.C., Definitions (PTE)]

Emission Limitations and Standards

B.5.i. Unit Particulate Matter Emission Limits:

a. Particulate matter emissions from Unit No. 4 shall not exceed 0.01 lb/million Btu heat input. This standard applies at all times except during periods of startup, shutdown, or malfunction.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.42a(a); 40 CFR 60.46a(a); 40 CFR 60.46a(c); Consent Final Judgment (DEP vs. TEC) dated December 6, 1999; Consent Decree (U.S. Vs. TEC) dated February 29, 2000; and EPA letter of approval of two plans (BOP and BACT) for control of particulate matter dated June 19, 2003]

b. Based on the maximum permitted heat input rate listed in Specific Condition B.1., particulate matter emissions from Unit No. 4 shall not exceed 43.3 lbs/hour, 1039 lbs/day, and 189.7 tons/year.

ii. Facility-Wide Particulate Matter Emission Limit:

[PSD-FL-040 and Rule 62-296.700(4)(b)1., F.A.C.; Consent Final Judgment (DEP vs. TEC) dated December 6, 1999; Consent Decree (U.S. Vs. TEC) dated February 29, 2000; and EPA letter of approval of two plans (BOP and BACT) for control of particulate matter dated June 19, 2003]

ii. Facility-wide Particulate Matter Emission Limit: In order to provide reasonable assurance that a significant net emission rate increase will not occur as a result of combusting raw and beneficiated coal residual at Big Bend, the combined emissions from Steam Generator Units 1-4 shall not exceed an annual emissions cap of 2,767 tons per year of PM/PM₁₀. This cap corresponds to the average emissions of the years 1999 and 2000. Any relaxation in this limit that increases the facility's potential to emit by at least 1 ton of pollutant per year will result in a reevaluation of PSD applicability for the facility as though construction had not yet commenced at the facility.

[Rule 62-212.400(2)(g) and Permit No. 0570039-012-AC]

{Permitting note: The averaging time for the emissions standard in this condition shall be equal to the cumulative run time required by the specified test method.}

B.6. Visible emissions from Unit No. 4 shall not exceed 20 (twenty) percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 (twenty-seven) percent opacity.
[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.42a(b); PSD-FL-040]

B.7. Unit Sulfur Dioxide Emission Limits.

a. Sulfur dioxide emissions from Unit No. 4 when combusting solid fuel shall not exceed 0.82 lb/million Btu heat input and 10 percent of the potential combustion concentration (90 percent reduction). Based upon a heat input of 4330 million Btu/hour, SO₂ emissions shall not exceed 3551 lb/hr.
[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.43a(a)(1); PSD-FL-040]

b. Compliance with sulfur dioxide emission limitations and percent reduction requirements is determined on a 30-day rolling average basis.
[Rule 62.204.800(7)(b)2., F.A.C.; 40 CFR 60.43a(g)]

B.8. Facility-wide Sulfur Dioxide Emission Limit. In order to provide reasonable assurance that a significant net emission rate increase will not occur as a result of combusting raw and beneficiated coal residual at Big Bend, the combined emissions from Steam Generator Units 1-4 shall not exceed an annual emissions cap of 71,810 tons per year of SO₂. This cap corresponds to the average emissions of the years 1999 and 2000. Any relaxation in this limit that increases the facility's potential to emit by at least 1 ton of pollutant per year will result in a reevaluation of PSD applicability for the facility as though construction had not yet commenced at the facility.
[Rule 62-212.400(2)(g) and Permit No. 0570039-012-AC]

B.9. Nitrogen dioxide emissions from Unit No. 4 when combusting bituminous or anthracite coal, or a coal/petroleum coke blend, shall not exceed 0.60 lb/million Btu heat input. Based upon a heat input of 4330 million Btu/hour, NO_x emissions shall not exceed 2598 lb/hr. These emission limits are based on a 30-day rolling average. These standards apply at all times except during periods of startup, shutdown, or malfunction.
[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.44a(a); 40 CFR 60.4a(c), PSD-FL-040]

B.10. Carbon monoxide (CO) emissions from Unit No. 4 shall not exceed 0.029 lb/million Btu heat input, and shall not exceed 124 lb/hr.
[PSD-FL-040 (October 9, 1985 modification)]
{Permitting note: The averaging time for the emissions standard in this condition shall be equal to the cumulative run time required by the specified test method.}

Compliance provisions.

B.11. The sulfur dioxide emission standards in specific condition B.7. apply at all times except during periods of startup, shutdown, or when both emergency conditions exist and the following procedures in specific condition B.12. are implemented.
[Rule 62-296.800(7)(b)2., F.A.C.; 40 CFR 60.46a(c)]

B.12. During emergency conditions in the principal company, an affected facility with a malfunctioning flue gas desulfurization system may be operated if sulfur dioxide emissions are minimized by:

(1) Operating all operable flue gas desulfurization system modules, and bringing back into operation any malfunctioned module as soon as repairs are completed,

(2) Bypassing flue gases around only those flue gas desulfurization system modules that have been taken out of operation because they were incapable of any sulfur dioxide emission reduction or which would have suffered significant physical damage if they had remained in operation, and

(3) Operating a *spare* flue gas desulfurization system module. The Department or EPCHC may at their discretion require TEC within 60 days of notification to demonstrate spare module capability. To demonstrate this capability, the owner or operator must demonstrate compliance with the appropriate requirements of specific condition B.7. for any period of operation lasting from 24 hours to 30 days when:

- (i) Any one flue gas desulfurization module is not operated,
- (ii) The affected facility is operating at the maximum heat input rate,
- (iii) The fuel fired during the 24-hour to 30-day period is representative of the type and average sulfur content of fuel used over a typical 30-day period, and
- (iv) TEC has given the Department or EPCHC at least 30 days notice of the date and period of time over which the demonstration will be performed.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.46a(d)]

B.13. Compliance with the sulfur dioxide emission limitations and percentage reduction requirements in specific condition B.7., and the nitrogen oxides emission limitations in specific condition B.9., is based on the *average emission rate* for 30 successive boiler operating days. A separate performance test is completed at the end of each boiler operating day after the initial performance test, and a new 30 day *average emission rate* for both sulfur dioxide and nitrogen oxides and a new percent reduction for sulfur dioxide are calculated to show compliance with the standards.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.46a(e)]

B.14. Compliance is determined by calculating the arithmetic average of all hourly *emission rates* for SO₂ and NO_x for the 30 successive boiler operating days, except for data obtained during startup, shutdown, malfunction (NO_x only), or emergency conditions (SO₂ only). Compliance with the percentage reduction requirement for SO₂ is determined based on the average inlet and average outlet SO₂ emission rates for the 30 successive boiler operating days.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.46a(g)]

B.15. If TEC has not obtained the minimum quantity of emission data as required in the following emission monitoring specific conditions B.16. through B.25, compliance of Unit No. 4 with the sulfur dioxide and nitrogen oxides standards for the day on which the 30-day period ends may be determined by the Administrator by following the applicable procedures in section 7 of Method 19, *Determination of Compliance When Minimum Data Requirement Is Not Met*.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.46a(h); 40 CFR 60, Appendix A, Method 19]

Emission Monitoring.

B.16. TEC shall calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere. If opacity interference due to water droplets exists in the stack (for example, from the use of an FGD system), the opacity is monitored upstream of the interference (at the inlet to the FGD system). If opacity interference is experienced at all locations (both at the inlet and outlet of the sulfur dioxide control system), alternate

parameters indicative of the particulate matter control system's performance are monitored (subject to the approval of the Department and the EPCHC.)

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(a)]

B.17. TEC shall calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring sulfur dioxide emissions as follows:

(1) Sulfur dioxide emissions are monitored at both the inlet and outlet of the sulfur dioxide control device.

(2) An "as fired" fuel monitoring system (upstream of coal pulverizers) meeting the requirements of Method 19, Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates, may be used to determine potential sulfur dioxide emissions in place of a continuous sulfur dioxide emission monitor at the inlet to the sulfur dioxide control device as required in the preceding specific condition B.17.(1).

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(b); 40 CFR 60, App. A, Method 19]

B.18. TEC shall calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(c)]

B.19. TEC shall calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring the oxygen and/or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxides emissions are monitored. The sulfur dioxide, nitrogen dioxide, oxygen and/or carbon dioxide, and opacity monitoring devices shall meet the applicable requirements of Section 62-214, F.A.C., 40 CFR 60.47a., and 40 CFR 75.). The opacity monitor shall be placed in the duct work between the electrostatic precipitator and the FGD scrubber. The continuous monitoring system will measure sulfur dioxide emissions at the inlet of each unit and outlet of the FGD system and from the Unit 3 stack (CS002) and Unit 4 stack (CS003), while emissions of nitrogen oxides, oxygen and/or carbon dioxide, and opacity shall be measured in the Units 3 and 4 ducts prior to the FGD system. When Unit 4 is operating and Unit 3 is not operating in the integrated mode, the continuous monitoring system will measure only Unit 4's inlet duct and stack for SO₂ emissions. The emissions of nitrogen oxides and opacity shall be measured in the Unit 4 duct prior to the FGD system. The emissions of carbon dioxide and sulfur dioxide are both measured in the inlet and outlet ducts.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(d); Power Plant Siting Certification PA 79-12D]

B.20. The continuous monitoring systems required in specific conditions B.17., B.18., and B.19., shall be operated and record data during all periods of operation of Unit No. 4 including periods of startup, shutdown, malfunction or emergency conditions, except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(e)]

B.21. TEC shall obtain emission data for at least 18 hours in at least 22 out of 30 successive boiler operating days. If this minimum data requirement cannot be met with a continuous monitoring system, TEC shall supplement emission data with other monitoring systems approved by the Department or the EPCHC, or the reference methods and procedures as described in Specific Condition B.23.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a (f)]

B.22. The 1-hour averages required under 40 CFR 60.13(h), *Monitoring Requirements*, are expressed in lbs/million Btu heat input and used to calculate the average emission rates required in specific conditions B.13. and B.14. The 1-hour averages are calculated using the data points required under 40 CFR 60.13(b), *Monitoring Requirements*. At least two data points must be used to calculate the 1-hour averages.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(g)]

B.23. When it becomes necessary to supplement continuous monitoring system data to meet the minimum data requirements in specific condition B.21., TEC shall use the following reference methods and procedures. Acceptable alternative methods and procedures are given in specific condition B.25.

(1) Method 6 shall be used to determine the SO₂ concentration at the same location as the SO₂ monitor. Samples shall be taken at 60-minute intervals. The sampling time and sample volume for each sample shall be at least 20 minutes and 0.020 dscm (0.71 dscf). Each sample represents a 1-hour average.

(2) Method 7 shall be used to determine the NO_x concentration at the same location as the NO_x monitor. Samples shall be taken at 30-minute intervals. The arithmetic average of two consecutive samples represents a 1-hour average.

(3) The emission rate correction factor, integrated bag sampling and analysis procedure of Method 3B shall be used to determine the O₂ or CO₂ concentration at the same location as the O₂ or CO₂ monitor. Samples shall be taken for at least 30 minutes in each hour. Each sample represents a 1-hour average.

(4) The procedures in Method 19 shall be used to compute each 1-hour average concentration in lb/million Btu heat input.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(h); 40 CFR 60, Appendix A, Methods 3B, 6, 7, and 19]

B.24. TEC shall use the following methods and procedures to conduct the monitoring system performance evaluations required under 40 CFR 60.13(c), *Monitoring Requirements*, and the calibration checks required under 40 CFR 60.13(d), *Monitoring Requirements*. Acceptable alternative methods and procedures are given in specific condition B.25.

(1) Methods 6, 7, and 3B, as applicable, shall be used to determine O₂, SO₂, and NO_x concentrations

(2) SO₂ or NO_x (NO), as applicable, shall be used for preparing the calibration gas mixtures (in N₂, as applicable) under 40 CFR 60 Appendix B, Performance Specification 2.

(3) The span value for a continuous monitoring system for measuring opacity is between 60 and 80 percent and for a continuous monitoring system measuring nitrogen oxides is determined as follows

Fossil fuel	Span value for nitrogen oxides (ppm)
Solid.....	1,000

(4) Reserved

(5) For affected facilities burning fossil fuel alone or in combination with non-fossil fuel, the span value of the sulfur dioxide continuous monitoring system at the inlet to the sulfur dioxide control device is 125 percent of the maximum estimated hourly potential emissions of the fuel fired, and the outlet of the sulfur dioxide control device is 50 percent of maximum estimated hourly potential emissions oil fuel, alone or in combination with non-fossil fuel, the span value of the fuel fired.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(i); 40 CFR 60.13; 40 CFR 60 Appendix A, Methods 3B, 6, and 7; 40 CFR 60 Appendix B, Performance Specification 2.]

B.25. TEC may use the following as alternatives to the reference methods and procedures specified in conditions B.23. and B.24.:

(1) For Method 6, Method 6A or 6B (whenever Methods 6 and 3 or 3B data are used) or 6C may be used. Each Method 6B sample obtained over 24 hours represents 24 1-hour averages. If Method 6A or 6B is used under specific condition B.24., the conditions under 40 CFR 60.46(d)(1) apply; these conditions do not apply under specific condition B.23.

(2) For Method 7, Method 7A, 7C, 7D, or 7E may be used. If Method 7C, 7D, or 7E is used, the sampling time for each run shall be 1 hour.

(3) For Method 3, Method 3A or 3B may be used if the sampling time is 1 hour.

(4) For Method 3B, Method 3A may be used.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.47a(j); 40 CFR 60.46(d)(1), 40 CFR 60 Appendix A, Methods 3, 3A, 3B, 6, 6A, 6B, 6C, 7, 7A, 7C, 7D, and 7E]

Compliance determination procedures and methods.

B.26. In conducting the performance tests required in *40 CFR 60.8*, the owner or operator shall use as reference methods and procedures the methods in appendix A of 40 CFR 60 or the methods and procedures as specified in conditions B.27. through B.30., except as provided in *40 CFR 60.8(b)*. *40 CFR 60.8(f)* does not apply to specific conditions B.28 and B.29. for SO₂ and NO_x. Acceptable alternative methods are given in specific condition B.30.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.48a(a); 40 CFR 60.8]

B.27. TEC shall determine compliance with the particulate matter standards in specific condition B.5. as follows:

(1) The dry basis F factor (O₂) procedures in Method 19 shall be used to compute the emission rate of particulate matter.

(2) For the particulate matter concentration, Method 5B shall be used after **wet** FGD systems.

(i) The sampling time and sample volume for each run shall be at least 120 minutes and 1.70 dscm (60 dscf). The probe and filter holder heating system in the sampling train may be set to provide an average gas temperature of no greater than 160±14 °C (320±25 °F).

(ii) For each particulate run, the emission rate correction factor, integrated or grab sampling and analysis procedures of Method 3B shall be used to determine the O₂ concentration. The O₂ sample shall be obtained simultaneously with, and at the same traverse points as, the particulate run. If the particulate run has more than 12 traverse points, the O₂ traverse points may be reduced to 12 provided that Method 1 is used to locate the 12 O₂ traverse points. If the grab sampling procedure is used, the O₂ concentration for the run shall be the arithmetic mean of all the individual O₂ concentrations at each traverse point.

(3) Method 9 and the procedures in *40 CFR 60.11* shall be used to determine opacity.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.48a(b); 40 CFR 60.11, 40 CFR 60 Appendix A, Methods 1, 3B, 5B, 9, and 19]

B.28. TEC shall determine compliance with the SO₂ standards in specific condition B.7. as follows:

(1) The percent of potential SO₂ emissions (%Ps) to the atmosphere shall be computed using the following equation:

$$\%P_s = (100 - \%R_g) / 100$$

where: $\%P_s$ = percent of potential SO₂ emissions, percent.
 $\%R_g$ = percent reduction by SO₂ control system, percent.

(2) [Reserved.]

(3) The procedures in Method 19 shall be used to determine the percent SO₂ reduction ($\%R_g$ of any SO₂ control system. Alternatively, a combination of an "as fired" fuel monitor and emission rates measured after the control system, following the procedures in Method 19, may be used if the percent reduction is calculated using the average emission rate from the SO₂ control device and the average SO₂ input rate from the "as fired" fuel analysis for 30 successive boiler operating days.

(4) The appropriate procedures in Method 19 shall be used to determine the emission rate.

(5) The continuous monitoring systems specified in conditions B.17. and B.19. shall be used to determine the concentrations of SO₂ and CO₂ or O₂.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.48a (c); 40 CFR 60 43a; 40 CFR 60.47a(b) and (d); 40 CFR 60 Appendix A, Method 19; Applicant request; 0570039-016-AC]

B.29. TEC shall determine compliance with the NO_x standards in specific condition B.9. as follows:

(1) The appropriate procedures in Method 19 shall be used to determine the emission rate of NO_x.

(2) The continuous monitoring systems specified in specific conditions B.18. and B.19. shall be used to determine the concentrations of NO_x and CO₂ or O₂.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.48a(d); 40 CFR 60.44a; 40 CFR 60.47a(c); 40 CFR 60.47a(d)]

B.30. TEC may use the following as alternatives to the reference methods and procedures specified in condition B.27:

(1) For Method 5 or 5B, Method 17 may be used at Unit No. 4 if the stack temperature at the sampling location does not exceed an average temperature of 160 °C (320 °F). The procedures of sections 2.1 and 2.3 of Method 5B may be used in Method 17 only if it is used after wet FGD systems. Method 17 shall not be used after wet FGD systems if the effluent is saturated or laden with water droplets.

(2) The F_c factor (CO₂) procedures in Method 19 may be used to compute the emission rate of particulate matter under the stipulations of 40 CFR 60.46(d)(1). The CO₂ shall be determined in the same manner as the O₂ concentration.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.48a(e); 40 CFR 60.46(d)(1); 40 CFR 60 Appendix A, Methods 5, 5B, 17, and 19]

Reporting requirements.

B.31. For sulfur dioxide, nitrogen oxides, and particulate matter emissions, the performance test data from the initial performance test and from the performance evaluation of the continuous monitors (including the transmissometer) shall be submitted to the Department and the EPCHC.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.49a(a)]

B.32. For sulfur dioxide and nitrogen oxides the following information shall be reported to the Department and the EPCHC for each 24-hour period.

(1) Calendar date.

(2) The average sulfur dioxide and nitrogen oxide emission rates (lb/million Btu heat input) for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the emission standards; and, description of corrective actions taken.

(3) Percent reduction of the potential combustion concentration of sulfur dioxide for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the standard; and, description of corrective actions taken.

(4) Identification of the boiler operating days for which pollutant or diluent data have not been obtained by an approved method for at least 18 hours of operation of the facility; justification or not obtaining sufficient data; and description of corrective actions taken.

(5) Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, malfunction (NO_x only), emergency conditions (SO₂ only), or other reasons, and justification for excluding data for reasons other than startup, shutdown, malfunction, or emergency conditions.

(6) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

(7) Identification of times when hourly averages have been obtained based on manual sampling methods.

(8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.

(9) Description of any modifications to the continuous monitoring system which could affect the ability of the continuous monitoring system to comply with 40 CFR 60 Appendix B, Performance Specifications 2 or 3.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.49a(b); 40 CFR 60 Appendix B]

B.33. If the minimum quantity of emission data, as required by the emission monitoring specific conditions B.16. through B.25., is not obtained for any 30 successive boiler operating days, the following information obtained under the requirements of specific condition B.15. shall be reported to the Administrator for that 30-day period:

(1) The number of hourly averages available for outlet emission rates (n_o) and inlet emission rates (n_i) as applicable.

(2) The standard deviation of hourly averages for outlet emission rates (s_o) and inlet emission rates (s_i) as applicable.

(3) The lower confidence limit for the mean outlet emission rate (E_o^*) and the upper confidence limit for the mean inlet emission rate (E_i^*) as applicable.

(4) The applicable potential combustion concentration.

(5) The ratio of the upper confidence limit for the mean outlet emission rate (E_o^*) and the allowable emission rate (E_{std}) as applicable.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.49a(c); 40 CFR 60 Appendix A, Method 19]

B.34. If any sulfur dioxide standards under specific condition B.7. is exceeded during emergency conditions because of control system malfunction, the owner or operator of the affected facility shall submit a signed statement:

(1) Indicating if emergency conditions existed and requirements under specific condition B.14. were met during each period, and

(2) Listing the following information:

(i) Time periods the emergency condition existed;

(ii) Electrical output and demand on the owner or operator's electric utility system and the affected facility;

(iii) Amount of power purchased from interconnected neighboring utility companies during the emergency period;

(iv) Percent reduction in emissions achieved;

(v) Atmospheric emission rate (ng/J or lb/MMBtu) of the pollutant discharged; and

(vi) Actions taken to correct control system malfunction.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.49a(d); 40 CFR 60.43a; 40 CFR 60.46a(d)]

B.35. [Reserved.]

B.36. For any periods for which opacity, sulfur dioxide or nitrogen oxides emissions data are not available, the owner or operator of the affected facility shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.49a(f)]

B.37. The owner or operator of the affected facility shall submit a signed statement indicating whether:

(1) The required continuous monitoring system calibration, span, and drift checks or other periodic audits have or have not been performed as specified.

(2) The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance.

(3) The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable.

(4) Compliance with the standards has or has not been achieved during the reporting period.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.49a(g)]

B.38. For the purposes of the reports required under *40 CFR 60.7*, periods of excess emissions are defined as all 6-minute periods during which the average opacity exceeds the applicable opacity standards under specific condition B.6. Opacity levels in excess of the applicable opacity standard and the date of such excesses are to be submitted to the Administrator each calendar quarter.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.49a(h)]

B.39. The owner or operator of an affected facility shall submit the written reports required under this section and subpart A to the Department and the EPCHC for every calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.49a(i)]

B.40. Gravimetric instrument data verifying that the 20.0% maximum petroleum coke content by weight has not been exceeded shall be maintained for **five** years and submitted to the Department and the EPCHC with each annual operating report. Also to be maintained and available for inspection shall be a daily record of operation showing the date, fuel used, mode of operation (integrated/non-integrated), and the duration of all startups, shutdowns and malfunctions. TEC shall maintain copies of fuel analyses containing information on sulfur content, ash content, and heating values.

[PSD-FL-040; Rules 62-4.070(3), 62-213.440(1)(b)2.b., F.A.C., and Power Plant Siting Certification PA 79-12]

B.41. TEC shall submit to the Department a standardized plan or procedure that will allow the permittee to monitor emission control equipment efficiency and enable the permittee to return malfunctioning equipment to proper operation as expeditiously as possible.
[Power Plant Siting Certification PA 79-12]

B.42. Pursuant to Rule 62-212.200(2)(d), F.A.C., the actual emissions of the No. 4 Unit shall equal the representative actual emissions as defined in 40 CFR 52.21(b)(33). TEC shall maintain and submit to the Department and the EPCHC on an annual basis for a period of 5 years from the date the unit begins firing petroleum coke, data demonstrating that the operational change did not result in an emissions increase.
[PSD-FL-040; PA 79-12, Conditions of Certification]

B.43. Stack height. The height of the boiler exhaust stack for Unit No. 4 (CS003) shall not be less than 490 ft. above grade.
[Power Plant Siting Certification PA 79-12]

The following requirements of 40 CFR 60, Subpart A - General Provisions Requirements, apply to Unit No. 4:

B.44. Definitions. For the purposes of Rule 62-204.800(7), F.A.C., the definitions contained in the various provisions of 40 CFR 60, shall apply except that the term "Administrator" when used in 40 CFR 60, shall mean the Secretary or the Secretary's designee.
[40 CFR 60.2; Rule 62-204.800(7)(a), F.A.C.]

40 CFR 60.7 Notification and record keeping.

B.45. The owner or operator subject to the provisions of 40 CFR 60 shall furnish the Administrator written notification as follows:

A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

[40 CFR 60.7(a)(4)]

B.46. The owner or operator subject to the provisions of 40 CFR 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or, any periods during which a continuous monitoring system or monitoring device is inoperative.

[40 CFR 60.7(b)]

B.47. Each owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions

are defined in applicable subparts) and/or a summary report form [see 40 CFR 60.7(d)] to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or, the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or, the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate).

Written reports of excess emissions shall include the following information:

- (1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.
- (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
- (3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
- (4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

[40 CFR 60.7(c)(1), (2), (3), and (4)]

B.48. The summary report form shall contain the information and be in the format shown in Figure 1 (attached) unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.

(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.

(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted.

{See attached Figure 1: Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance} (electronic file name: figure1.doc)

[40 CFR 60.7(d)(1) and (2)]

B.49. (1) Notwithstanding the frequency of reporting requirements specified in 40 CFR 60.7(c), an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:

(i) For 1 full year (e.g., 4 quarterly or 12 monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under this part continually demonstrate that the facility is in compliance with the applicable standard;

(ii) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in 40 CFR 60, Subpart A, and the applicable standard; and

(iii) The Administrator does not object to a reduced frequency of reporting for the affected facility, as provided in 40 CFR 60.7(e)(2).

(2) The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(3) As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the owner or operator shall submit an excess emissions and monitoring systems performance report (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard as provided for in 40 CFR 60.7(e)(1) and (e)(2).

[40 CFR 60.7(e)(1)]

B.50. Any owner or operator subject to the provisions of 40 CFR 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and, all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least **5 (five)** years following the date of such measurements, maintenance, reports, and records.

[40 CFR 60.7(f); Rule 62-213.440(1)(b)2.b., F.A.C.]

40 CFR 60.8 Performance tests.

B.51. Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

[40 CFR 60.8(c)]

B.52. The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present.

[40 CFR 60.8(d)]

40 CFR 60.11 Compliance with standards and maintenance requirements.

B.53. Compliance with standards in 40 CFR 60, other than opacity standards, shall be determined in accordance with performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.

[40 CFR 60.11(a)]

B.54. Compliance with opacity standards in 40 CFR 60 shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60, any alternative method that is approved by the Administrator, or as provided in 40 CFR 60.11(e)(5).

[40 CFR 60.11(b)]

B.55. The opacity standards set forth in 40 CFR 60 shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.

[40 CFR 60.11(c)]

B.56. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

[40 CFR 60.11(d)]

B.57. The owner or operator of an affected facility subject to an opacity standard may submit, for compliance purposes, continuous opacity monitoring system (COMS) data results produced during any performance test required under 40 CFR 60.8 in lieu of EPA Method 9 observation data. If an owner or operator elects to submit COMS data for compliance with the opacity standard, he or she shall notify the Administrator of that decision, in writing, at least 30 days before any performance test required under 40 CFR 60.8 is conducted. Once the owner or operator of an affected facility has notified the Administrator to that effect, the COMS data results will be used to determine opacity compliance during subsequent tests required under 40 CFR 60.8 until the owner or operator notifies the Administrator, in writing, to the contrary. For the purpose of determining compliance with the opacity standard during a performance test required under 40 CFR 60.8 using COMS data, the minimum total time of COMS data collection shall be averages of all 6-minute continuous periods within the duration of the mass emission performance test. Results of the COMS opacity determinations shall be submitted along with the results of the performance test required under 60.8. The owner or operator of an affected facility using a COMS for compliance purposes is responsible for demonstrating that the COMS meets the requirements specified in 40 CFR 60.13(c), that the COMS has been properly maintained and operated, and that the resulting data have not been altered in any way. If COMS data results are submitted for compliance with the opacity standard for a period of time during which EPA Method 9 data indicates noncompliance, the EPA Method 9 data will be used to determine opacity compliance.

[40 CFR 60.11(e)(5)]

40 CFR 60.12 Circumvention.

B.58. No owner or operator subject to the provisions of 40 CFR 60 shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[40 CFR 60.12]

40 CFR 60.13 Monitoring requirements.

B.59. For the purposes of 40 CFR 60.13, all continuous monitoring systems (CMS) required under applicable subparts shall be subject to the provisions of 40 CFR 60.13 upon promulgation of performance specifications for continuous monitoring systems under Appendix B of 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, Appendix F of 40 CFR 60, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is applicable December 4, 1987.

[40 CFR 60.13(a)]

B.60. If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under 40 CFR 60.11(e)(5), he shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, Appendix B, of 40 CFR 60 before the performance test required under 40 CFR 60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under 40 CFR 60.8 or within 30 days thereafter in accordance with the applicable performance specification in Appendix B of 40 CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under 60.8 and as described in 40 CFR 60.11(e)(5) shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40 CFR 60.13(c) at least 10 days before the performance test required under 60.8 is conducted.

[40 CFR 60.13(c)(1)]

B.61. (1) Owners and operators of all continuous emission monitoring systems (CEMS) installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in Appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.

(2) Unless otherwise approved by the Administrator, the following procedures shall be followed for continuous monitoring systems measuring opacity of emissions. Minimum procedures shall include a method for producing a simulated zero opacity condition and an upscale (span) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surfaces and all electronic circuitry including the lamp and photo detector assembly.
[40 CFR 60.13(d)(1) and (2)]

B.62. Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40 CFR 60.13(d), all continuous monitoring systems (CMS) shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

(1) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(2) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.
[40 CFR 60.13(e)(1) and (2)]

B.63. All continuous monitoring systems (CMS) or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of Appendix B of 40 CFR 60 shall be used.
[40 CFR 60.13(f)]

B.64. When the effluents from a single affected facility or two or more affected facilities subject to the same emission standards are combined before being released to the atmosphere, the owner or operator may install applicable continuous monitoring systems (CMS) on each effluent or on the combined effluent. When the affected facilities are not subject to the same emission standards, separate continuous monitoring systems shall be installed on each effluent. When the effluent from one affected facility is released to the atmosphere through more than one point, the owner or operator shall install an applicable continuous monitoring system on each separate effluent unless the installation of fewer systems is approved by the Administrator. When more than one continuous monitoring system is used to measure the emissions from one affected facility (e.g., multiple breechings, multiple outlets), the owner or operator shall report the results as required from each continuous monitoring system.
[40 CFR 60.13(g)]

B.65. Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in 40 CFR 60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or non reduced form (e.g., ppm pollutant and percent O₂ or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable

conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit (e.g., rounded to the nearest 1 percent opacity).
[40 CFR 60.13(h)]

B.66. These emissions units are subject to requirements contained in Consent Final Judgment (DEP vs. TEC) dated December 6, 1999 and the Consent Decree (U.S. vs. TEC) dated February 29, 2000, including the October 4, 2000 amendment.
[Permit No. 0570039-014-AC]

B.67. The first in a series of equipment installed pursuant to the Consent Final Judgment and Consent Decree for the purposes of NO_x requirements contained therein include:
a. Steam Generator Unit No. 4 is equipped with Low NO_x burners (LNB).
b. Steam Generator No. 4 is equipped with separate overfire air (SOFA).
[Permit No. 0570039-014-AC]

B.68. Unit 4 shall be operated using the Low NO_x burners and in accordance with the operational procedures that have been developed to minimize NO_x emissions.
[Permit No. 0570039-014-AC]

B.69. Unit 4 shall be operated using the Separate Overfire Air System (SOFA) and in accordance with the operational procedures that have been developed to minimize NO_x emissions.
[Permit No. 0570039-014-AC]

B.70. These emissions units are subject to the Compliance Assurance Monitoring requirements contained in the attached APPENDIX CAM.

Subsection C. Combustion Turbines

This section addresses the following Regulated Emissions Units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
-007	Combustion Turbine No. 1
-005	Combustion Turbine No. 2
-006	Combustion Turbine No. 3

Descriptions

Combustion Turbine No. 1 is a self-contained combustion turbine generating unit. The unit is a predesigned integrated simple-cycle, single-shaft, three-bearing machine with the load connected at the exhaust end of the unit. The turbine is fired on No. 2 distillate fuel oil and operated for intermittent peaking and emergency services only. The generator nameplate capacity is 18 MW. Unit No. 1 began commercial operation in 1969.

Combustion Turbine No. 2 is a self-contained Westinghouse combustion turbine generating unit. The unit is a predesigned integrated simple-cycle, single-shaft, three-bearing machine with the load connected at the exhaust end of the unit. The turbine is fired on No. 2 distillate fuel oil and operated for intermittent peaking and emergency services only. The generator nameplate capacity is 78 MW. Unit No. 2 began commercial operation in 1974.

Combustion Turbine No. 3 is a self-contained Westinghouse combustion turbine generating unit. The unit is a predesigned integrated simple-cycle, single-shaft, multi-bearing machine with the load connected at the exhaust end of the unit. The turbine is fired on No. 2 distillate fuel oil and operated for intermittent peaking and emergency services only. The generator nameplate capacity is 78 MW. Unit No. 3 began commercial operation in 1974.

{Permitting note: These are pre-NSPS combustion turbines.}

The following conditions apply to the Emissions Units listed above:

Essential Potential to Emit (PTE) Parameters

C.1. Methods of Operation - Fuels. The combustion turbines shall be fired on No. 2 distillate fuel oil and operated for intermittent peaking and emergency services only. [Rule 62-4.160(2), F.A.C., Construction application request]

C.2. Hours of Operation. Operation of each gas turbine shall not exceed 3650 hours of operation during any consecutive 12 months. [Design; Rule 62-210.200, F.A.C. (Definitions - PTE), Permit No. 057-0039-006-AC]

C.3. Inlet Fogger Operation: Combined operation of the inlet air foggers for both gas turbines CT-2 and CT-3 shall not exceed 1365 total hours during any consecutive 12 months. [Design; Rule 62-212.400, F.A.C. (BACT); Rule 62-210.200, F.A.C. (Definitions - PTE), Permit No. 057-0039-006-AC]

C.4. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of this permit due to breakdown of equipment or destruction by fire, wind or other cause, the owner or operator

shall notify the Compliance Authority by phone, FAX, or letter 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, the steps being taken to correct the problem and prevent future recurrence, and 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 and the regulations. [Rule 62-4.130, F.A.C., Permit No. 057-0039-006-AC]

Emission Limitations and Standards

C.5. Visible emissions from each combustion turbine shall not be equal to or greater than 20 percent opacity.

[Rule 62-296.320(4)(b)1., F.A.C.]

C.6. During each federal fiscal year (October 1 - September 30) the Tampa Electric Company shall have formal compliance tests conducted on each combustion turbine for opacity. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

[Rule 62-296.712, Rule 62-297.310(7)(a)4.a., , and Rule 62-297.310(7)(a)8., F.A.C.]

C.7. The test methods for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.

Recordkeeping and Reporting Requirements

C.8. If TEC chooses to conduct a visible emissions compliance test only once per five-year period, per Rule 62-297.310(7)(a)8., daily recordkeeping of the hours of operation is required to show that the 400-hour annual limit is not exceeded each year during the five-year period.

[Rule 62-297.310(7)(a)8., and Rule 62-4.070(3), F.A.C.]

C.9. Documentation of the type, quantity, and analysis of the fuel oil used/received is required. Records shall be kept for five years.

[Rules 62-4.070(3) and 62-213.440(1), F.A.C.]

C.10. The average daily and total annual hours of operation for each combustion turbine shall be submitted in an annual operation report. In addition, for each combustion turbine, annual emissions reporting requirements, apply to emissions of each pollutant that a turbine emits in the following quantities:

- (1) for PM₁₀, sulfur oxides, VOC, and nitrogen oxides - 25 tons per year or more,
- (2) for carbon monoxide - 250 tons per year or more,
- (3) for lead or lead compounds, measured as elemental lead - 5 tons per year or more.

[62-210.370(3), F.A.C., 40 CFR 51.322(b)]

Tampa Electric will evaluate emissions from the turbines through the use of AP-42 emission factors or another equivalent method such as fuel analysis. [USEPA objection resolution.]

Compliance Demonstrations

C.11. Records: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to DEP representatives upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2., F.A.C.]

C.12. Monthly Operations Summary: By the fifth calendar day of each month, the permittee shall record the following information in a written log for the previous month of operation and for the previous 12 months of operation: the number of operational hours for each gas turbine; the number of hours of inlet air fogging for each gas turbine; and the total combined number of hours of inlet air fogging for both gas turbines. The Monthly Operations Summary shall be maintained on site in a legible format available for inspection at the Department's request. [Rule 62-4.160(15), F.A.C.]

Subsection D. Flyash Handling and Storage

This section addresses the following Regulated Emissions Units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
-008	Fly Ash Silo No. 1 Baghouse
-018	Fly Ash Silo No. 1 Truck Loadout
-009	Fly Ash Silo No. 2 Baghouse
-019	Fly Ash Silo No. 2 Truck Loadout
-026	Fly Ash Handling and Storage Fugitive Emissions (all except silos)

Descriptions

Fly Ash Silo No. 1 handles fly ash from Steam Generator Units No. 1 and No. 2. Fly ash is pneumatically conveyed from the individual electrostatic precipitators to Silo No. 1. Also, the fly ash may be pneumatically conveyed from tanker trucks to and/or from Silo No. 2 to Silo No. 1. The sum total loading rate to the silo for all the processes combined is 44.5 tons per hour. Fly ash from Silo No. 1 is discharged in either a wet or dry state. The dry fly ash is gravity fed by tubing into totally enclosed tanker trucks. The wet fly ash is processed through a pugmill and then unloaded into a dump truck. Particulate matter emissions generated by silo loading and silo unloading to a tanker truck are controlled by a 20,081 DSCFM Flex Kleen Model No. 84 UDTR-640 baghouse in addition to reasonable precautions. All fly ash handled is generated on-site.

Fly Ash Silo No. 2 handles fly ash from Steam Generator Units Nos. 1, 2, and/or 3. Fly ash is pneumatically conveyed in a series of pipes from the individual unit precipitators (Units 1, 2, and/or 3, only two units at any time) to the silo for temporary storage. Fly ash from Silo No. 2 is discharged in either a wet or dry state. From the silo, the dry fly ash is gravity fed by tubing into closed tanker trucks and transported to an off-site consumer. The wet fly ash is processed through a pugmill and then unloaded into a dump truck to be transported to an off-site consumer. Particulate emissions generated during silo loading operation and from the tanker truck loadout chutes are controlled by a 20,081 DSCFM Flex Kleen, Model No. 84 UDTR-640 baghouse in addition to reasonable precautions.

The following conditions apply to the Emissions Units listed above:

Essential Potential to Emit (PTE) Parameters

D.1. Capacity. The maximum permitted loading rate for all Fly Ash Silo No. 1 processes combined is 44.5 tons per hour. The maximum permitted loading rate for all Fly Ash Silo No. 2 processes combined is 44.5 tons per hour. Separate testing of emissions from each unit shall be conducted with each emissions unit operation at 90 to 100 percent of the maximum permitted capacity. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[AC29-194516; AO29-161082; Rule 62-4.160(2), and Rule 62-297.310(2), F.A.C.]

D.2. Hours of Operation. Fly Ash Silos No. 1 and No. 2 are each allowed to operate continuously, i.e., 8760 hours/year.
[Rule 62-210.200, F.A.C., Definitions (PTE)]

Emission Limitations and Standards

D.3. Visible emissions from each silo baghouse shall not be equal to or greater than 20 percent opacity. Visible emissions from each silo truck loadout shall not be equal to or greater than 20 percent opacity.
[Rule 62-296.320(4)(b)1., F.A.C.]

D.4. Visible emissions from the flyash handling system and flyash silos are limited to 5% opacity.
[Power Plant Siting Certification PA 79-12]

D.5. Total maximum allowable emissions of particulate matter from the each silo baghouse shall not exceed 0.03 grains/DSCF, 5.16 lbs./hr. and 22.62 tons/yr. based on a design flow rate of 20,081 DSCFM. The requirement of formal particulate matter compliance testing as provided in specific condition D.6. shall be waived if the baghouse meets the alternative standard of 5% opacity. If the Department or the Environmental Protection Commission of Hillsborough County has reason to believe that the particulate weight emission standard is not being met, the agency shall require that compliance be demonstrated by EPA Method 17 specified in Rule 62-297, F.A.C.
[Rule 62-4.160(2) and Rule 62-297.620(4), F.A.C.; AO29-160255; AO29-161082]

Test Methods and Procedures

D.6. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the Tampa Electric Company shall have formal compliance tests conducted on each silo baghouse for opacity and particulate matter and formal compliance test conducted on each silo truck loadout for opacity.
[Rule 62-297.310(7)(a)4., F.A.C.]

D.7. The test method for particulate emissions shall be EPA Method 17, with an acetone wash and an average stack temperature below 275 degrees Fahrenheit, or EPA Method 5 with an acetone wash. These test methods are incorporated and adopted by reference in Chapter 62-297, F.A.C. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(a)3.a.(ii) and 62-296.320(4)(a)3.c., F.A.C.]

D.8. The test methods for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.
[Rule 62-296.320(4)(b)4., F.A.C.]

D.9. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Rule 62-296.320(4), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. The following reasonable

precaution shall be taken to control unconfined particulate matter emissions associated with the fly ash silo/truck operations. Reasonable precautions shall include, but not limited to:

- A) Fly ash transported by dump truck shall be adequately wetted and processed through the pugmill.
- B) Dump trucks used to transport fly ash shall utilize tarps at all times except when loading/unloading.
- C) Fly ash transported in a dry state shall be accomplished utilizing an enclosed tanker truck.
- D) Fly ash spilled and/or leaked on plant grounds shall be adequately wetted and disposed of daily.
- E) Fly ash collected from spills and/or leaks must be adequately wetted at all times.
- F) Ensure the proper seating of the unloader chute onto the tanker inlet prior to loading.
- G) Keep the dust extractor operational during loading.
- H) Close the tanker's inlet as soon as practical after the loading process.
- I) Extend the tubing from the silo into the closed tanker type trucks during loadout.
- J) Periodic watering of plant roads.

[Rule 62-296.320(4)(c)2., F.A.C., AO29-160255, and precautions specified in initial Title V application.]

D.10. Compliance testing for the silo and tanker truck loading operations shall be conducted under the following conditions:

- a. All conveyance hoppers will be operational during the test.
- b. All fly ash will be directed to the silo, no reinjection of fly ash to the boiler systems will occur during the test.
- c. The boilers shall operate at the maximum capability of this unit under normal operating conditions during the test.
- d. Two tanker trucks shall be loaded during the test. The loading valve shall be open to allow 90%-100% of the maximum loading rate during testing. Position of the valve during testing shall be recorded.
- e. The visible emission test shall be at least 30 minutes in duration and the period of time during which truck loading occurred indicated on the test report.

[Rules 62-4.070(3) and 62-297.310, F.A.C.].

D.11. Compliance with the emission limitations of Specific Conditions Nos. 3 and 4 shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297.401, F.A.C. The Method 9 observation period for the silo and tanker truck loading operations shall be at least thirty (30) minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A.

[Rule 62-297, F.A.C.]

D.12. All compliance tests shall be conducted while loading the silo at approximately the maximum feed rate (24 hour average). Failure to submit the feed rate or operating at conditions during testing which do not reflect normal operating conditions may invalidate the data.

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

Subsection E. Flyash Silo No. 3

This section addresses the following Regulated Emissions Units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
-014	Fly Ash Silo No. 3 Baghouse
-027	Fly Ash Silo No. 3 Truck Loadout
-028	Fly Ash Handling System Fugitive Emissions

Description

Fly Ash Silo No. 3 handles fly ash from Steam Generator Unit No. 4. Also, fly ash may be pneumatically conveyed from tanker trucks to Silo No. 3. Particulate matter emissions are controlled by a 1,200 DSCFM Flex Kleen Model 84-WRTC-80-II-G baghouse. The wet flyash may be processed through a pugmill and then unloaded into a dump truck.

The following conditions apply to the Emissions Unit listed above:

Essential Potential to Emit (PTE) Parameters

E.1. Particulate matter emissions from the flyash handling system and flyash silo shall not exceed 0.2 lb/hr.

[Power Plant Siting Certification PA 79-12; PSD-FL-040]

E.2. Visible emissions from the flyash handling system and the flyash silo are limited to 5% opacity.

[Power Plant Siting Certification PA 79-12]

E.3. The flyash handling system (including transfer and silo storage) will be maintained at negative pressures and vented to a control system.

[PSD-FL-040]

E.4. Tampa Electric will perform an annual VE test to satisfy the periodic monitoring requirements of these conditions. In addition, the system pressure will be monitored quarterly to assess that the system is operating under negative pressure.

[USEPA objection resolution.]

Subsection F. Limestone Handling and Storage

This section addresses the following Regulated Emissions Units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
-011	Truck Limestone Unloading Receiving Hopper
-012	Limestone Silo A with 2 baghouses
-013	Limestone Silo B with 2 baghouses
-023	Limestone Handling Conveyor LB to Conveyor LC with baghouse, Limestone Handling Conveyor LD to Conveyor LE with baghouse
-025	Limestone Storage and Handling Fugitive Emissions

Descriptions

Particulate matter emissions generated by the transfer of limestone from Handling Conveyor LB to Conveyor LC are controlled by a Sternvent Model DKED18003 baghouse. Particulate matter emissions generated by the transfer of limestone from Handling Conveyor LD to Conveyor LE are controlled by a Sternvent Model DKED 18003 baghouse.

The following conditions apply to the Emissions Units listed above:

Essential Potential to Emit (PTE) Parameters

F.1. Total combined particulate matter emissions from the limestone handling conveyors shall not exceed 0.65 lb/hr. Visible emissions are limited to 5% opacity. Compliance testing for particulate matter emissions is not required provided the opacity limit is maintained.
[PSD-FL-040; Power Plant Siting Certification PA 79-12]

F.2. Total combined particulate matter emissions from the limestone silos shall not exceed 0.05 lb/hr. Visible emissions are limited to 5% opacity. Compliance testing for particulate matter emissions is not required provided the opacity limit is maintained.
[PSD-FL-040; Power Plant Siting Certification PA 79-12]

F.3. All conveyors and conveyor transfer points shall be enclosed to preclude particulate matter emissions.
[PSD-FL-040]

F.4. The limestone handling conveyor transfer points and silos shall be maintained at negative pressures with the exhaust vented to a control system(s).
[PSD-FL-040]

F.5. Tampa Electric will perform an annual VE test on E.U. ID Nos. 011, 012, 013, and 023 to satisfy the periodic monitoring requirements of these conditions. In addition, the system pressure will be monitored quarterly to assess that the system is operating under negative pressure.
[USEPA objection resolution.]

Subsection G. Coal Bunkers with Roto-Clones

This section addresses the following Regulated Emissions Units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
-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

Descriptions

These emission units are Steam Generator Units Nos. 1- 4 Coal Bunkers with an exhaust fan/cyclone collector (Roto-Clone) controlling dust emission from each unit's respective bunker. Two moving transfer stations via their respective conveyor belts route coal through enclosed chutes to the various bunkers. Coal Bunkers 1- 4 are each equipped with a 9400 ACFM American Air Filter (AAF) Company Type D Roto-Clone to abate dust emissions during ventilation. A number of vent pipes convey fresh air from each bunker to a Roto-Clone during particulate matter removal. Particulate matter removed by the Roto-Clones is returned to the coal bunkers via a hopper and return line. Unit No. 1 Coal Bunker is situated west of Unit No. 2 Coal Bunker. Unit No. 3 Coal Bunker is situated east of Unit No. 2 Coal Bunker. Unit No. 4 Coal Bunker is located east of Unit No. 3.

The following conditions apply to the Emissions Units listed above:

Essential Potential to Emit (PTE) Parameters

G.1. Capacity. The annual coal throughput shall not exceed 4,000 TPH per bunker.
[Rule 62-4.160(2), F.A.C.]

G.2. Hours of Operation. To show compliance with the annual allowable emission rate, the hours of bunker loading operation shall not exceed 4167 hours per year.
[Rule 62-210.200, F.A.C., Definitions (PTE)]

Emission Limitations and Standards

G.3. Visible emissions from each unit shall not be equal to or greater than 20% opacity. The test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C.
[Rule 62-296.320(4)(b)1. and 4., F.A.C.]

G.4. Since a source of less than 1 TPY is exempt from particulate matter RACT provisions, the maximum allowable particulate emissions shall not exceed 0.99 tons per year from each rotoclone exhaust. Also maximum allowable particulate matter emissions shall not exceed 0.48 lbs/hr from each cyclone exhaust.
[AO29-163788 to escape RACT]

G.5. The maximum allowable emission rate for particulate matter for this source is set by specific condition no. G.4. Because of the expense and complexity of conducting a stack test on minor sources of particulate matter, the Department hereby waives the requirement for a stack test. The alternative standard establishes a visible emission limitation not to exceed an opacity of 5%. Compliance with this alternate emission limitation shall be determined using DEP Method 9 contained in 62-297.401, F.A.C.

[AO29-163788]

G.6. Should the Department have reason to believe the particulate matter emission standard is not being met, the Department may require that compliance with the particulate emission standards be demonstrated by testing using EPA Methods 1, 2, 4 and 5 in accordance with 62-297.401, F.A.C.

[Rule 62-297.310(7)(b), F.A.C.]

G.7. Tampa Electric will monitor the hours of operation of coal bunker loading. In addition, Tampa Electric will perform an annual VE test to satisfy the periodic monitoring requirements of this condition.

[USEPA objection resolution.]

Subsection H. Solid Fuel Yard

This section addresses the following Regulated Emissions Units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
010	Solid Fuel Yard, Fugitive Emissions
029	Cyclone collectors for fuel blending bins (FH-032 through FH-035)
030	Cyclone collectors for fuel mills (FH-048 and FH-049)

Descriptions

Solid fuel is unloaded from ship/barge into the Solid fuel yard, the blending bins or directly to the tripper room via belt conveyors. Solid fuel from the piles is loaded onto belt conveyors using a rail mounted or mobile reclaimer. The solid fuel is then belt conveyed to the blending bins, which consists of six storage bins, where the solid fuel may be blended for use at the plant, or transloaded into trucks for shipment off site. Particulate matter (PM) emissions from the conveyors in the blending bins are controlled by 4 rotoclones, one at the conveyor drop, and one for every 2 bins. Blending bins can either feed the transloader, or solid fuel can be conveyed, via 2 parallel belts (T1, T2) to 2 crushers (each belt has a crusher), or diverted directly to the tripper room. PM emissions from the 2 crushers and transfer tower are controlled by 2 rotoclones.

From the tripper room, 2 trippers bunker the solid fuels into 4 solid fuel bunkers. Each unit has its own respective bunker. From the bunkers, the solid fuel is gravity fed into 14 mills, and then fed into the boilers. There are 3 ball mills, each for Unit Nos. 1 – 3, and 5 bowl mills for Unit No. 4. From the mills, the solid fuel is pneumatically fed into classifiers, two for each mill on Unit Nos. 1-3 and one for each mill on Unit No. 4 for a total of 23 classifiers, and then into the respective boilers.

The following conditions apply to the Emissions Units listed above:

H.1. TEC shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values.
[Power Plant Siting Certification PA 79-12]

H.2. Particulate matter emissions from the solid fuel handling facilities:

- (a) Pursuant to Chapter 1-3.62 Rules of the Environmental Protection Commission of Hillsborough County, visible emission shall not exceed 20% opacity for any unconfined emission unit in the fuel yard. Unconfined emissions as defined by Rule 62-296.200, F.A.C., shall include the static fuel piles, etc. Pursuant to Rule 62.296.711(2), F.A.C., visible emissions shall not exceed 5 percent opacity for the remaining emission units in the fuel yard. Visible emissions compliance tests shall be demonstrated using EPA Reference Method 9, 40 CFR Part 60, Appendix A, Visual Determination of Fugitive Emissions from Material Sources (July 1, 1993 version). All testing shall be done within 90 days of completing reconfiguration of the fuel yard, and prior notification of testing shall be submitted in writing at least 15 days beforehand to the EPC of Hillsborough County. Particulate emissions shall be controlled by use of control devices. Tampa Electric will perform an annual VE test to demonstrate compliance with the opacity standard established for the solid fuel yard.

- (b) The permittee must submit to the Department within ten (10) working days after it becomes available, copies of technical data pertaining to the selected particulate emissions control for the coal handling facility. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters such as air/cloth ratio and flow rate. The Department may, upon review of these data, disapprove the use of such device if the Department determines the selected control device to be inadequate to meet the emission limits specified in condition (a) above. Such disapproval shall be issued within 30 days of receipt of the technical data.
- (c) The fuel pile operations are subject to Rule 62-296.310(3), F.A.C., Unconfined Emissions of Particulate Matter. Reasonable precautions to minimize unconfined particulate matter shall be in accordance with Rule 62-296.310(3)(c), F.A.C.,; and, may include, but shall not be limited to, the coating of roads and construction sites used by contractors and regrassing or watering areas of disturbed fuel.
- (d) From each fuel transloading source/emissions point (i.e., off-loading and loading of fuel {for export from Big Bend Station}), the maximum hourly transloading transfer of fuel shall not exceed 4,000 tons, 24-hour rolling average.
- (e) From each fuel transloading source/emissions point, (i.e., off-loading and loading of fuel {for export from Big Bend Station}), the maximum annual transloading transfer of fuel shall not exceed 1,428,030 tons.
- (f) The number of railcars and trucks and the quantity of fuel loaded by each fuel transloading source/emissions point (i.e., off-loading and loading of fuel {for export from Big Bend Station*}) shall be recorded, maintained, and kept on file for a minimum of five years. The annual quantity of fuel loaded by each fuel transloading source/emissions point shall be submitted in the Annual Operation Report.

[Power Plant Siting Certification PA 79-12]

*Permitting Note.

- H.3. All conveyors and conveyor transfer points shall be enclosed to preclude particulate matter emissions excepting the coal handling stacker reclaimer, the tail end conveyor feeding the tripper and the barge unloading belt which are exempted for feasibility considerations. [PSD-FL-040]
- H.4. Coal storage piles shall be shaped, compacted and oriented to minimize wind erosion. [PSD-FL-040]
- H.5. Water sprays for storage piles, handling equipment, etc., including the handling equipment exempted from the conveyor enclosure requirement, shall be applied during dry periods and as necessary to all facilities to maintain opacity below 20 percent. [Rules 62-4.160(2) and 62-296.320(4)(c), F.A.C.]
- H.6. An updated list of the Emissions Points (FH-001 through FH-076b) related to Emissions Units 010, 029 and 030 is attached as Appendix F. [Permit No. 0570039 -025-AC]

Operating Requirements

- H.7. Hours of Operation: The solid fuel yard is allowed to operate continuously, i.e., 8,760 hours/year. [Rules 62-4.160(2) and 62-210.200, F.A.C., P.T.E.; Permit No. 0570039 -025-AC]

The subsequent conditions address these listed Emissions Points related to Emissions Unit 010:

<u>Emissions Point</u>	<u>Description of Emissions Point</u>
FH-074a PET	Reclaim from Petcoke Storage Pile to Trucks
FH-074b COAL	Reclaim from Coal Storage Pile to Trucks
FH 074c SLAG	Reclaim from Slag Storage Pile to Trucks
FH-075a PET/COAL/SLAG	Truck Traffic (paved roads, empty trucks)
FH 075b PET/COAL/SLAG	Truck Traffic (paved roads, full trucks)
FH-076a PET/COAL/SLAG	Truck Traffic (unpaved roads, empty trucks)
FH-076b PET/COAL/SLAG	Truck Traffic (unpaved roads, full trucks)

Description of Operations related to Emissions Unit 010/Emissions Points FH-074a – FH-076b

Coal, petcoke, or slag related to the additional transloading is brought in by barge at infrequent intervals and transferred to Transfer Station T2 using existing conveyors. From Station T2, the transloaded materials are transferred to storage piles located in the fuel yard using a combination of existing conveyors. The coal, petcoke, and slag is then loaded into trucks using front-end loaders for off-site shipment.

Essential Potential to Emit (PTE) Parameters

H.8. Materials Allowed and Permitted Capacity: The allowable materials to be transloaded via the emission points listed above as FH-074, FH-075, and FH-076 are coal (except residual coal), petcoke or slag. Maximum annual transloading rates at these three additional emissions points shall not exceed 150,000 tons per year for each material and 450,000 tons per year for all three materials combined; only one material will be transloaded at a time.

The maximum solid fuel/slag transloading shall not exceed 4,000 tons per hour on a 24-hr rolling average and shall not exceed 1,428,030 tons per year.

[Rules 62-4.070 (3), and 62-210.200 (PTE), F.A.C.; Site Certification No. PA79-12 C and D; and Permit No. 0570039-025-AC]

Emission Limitations and Standards

H.9. Visible Emissions: Visible emissions generated by fugitive or unconfined particulate matter from this transloading operation (emissions points FH-074a, FH-074b, and FH-074c) shall not exceed 20% opacity. [Rule 62-296.320(4)(b)1, F.A.C.; Permit No. 0570039 –025-AC]

Test Methods and Procedures

H.10. Test Methods and Frequency: Visible emissions shall be determined using EPA Method 9, adopted and incorporated by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C. Initial and annual testing is required. An initial VE test shall be performed on the following truck-loading emissions points: FH-074a PET; FH-074b COAL and FH-074c SLAG. Thereafter, annual testing shall be performed on emissions points FH-074a PET and FH-074b COAL. For the purpose of the VE test, the hourly transloading rate to trucks at the subject emissions points shall be as close to 144 tons per hour as practicable.

[Rules 62-204.800, 62-297.310(7)(a)4., and 62-297.400, F.A.C.; Permit No. 0570039-025-AC]

{Permitting Note: No annual testing is required for emission point FH-074c SLAG based on the initial visible emissions test conducted on May 2, 2007 indicating that slag handling has minimal emissions.}

Reasonable Assurances

H.11. Controls: All controls associated with the transfer points (i.e., the enclosures and dust suppression) shall be maintained to the extent that the capture efficiencies credited will be achieved. Trucks used to transport coal, petcoke or slag shall utilize tarps at all times except when loading/unloading. Reasonable precautions to prevent unconfined emissions of particulate matter shall be in accordance with Rule 62-296.320(4), F.A.C. and are enumerated in Appendix C, Common Condition 11. of Permit No. 0570039-025-AC.
[Rule 62-4.070(3), and Rule 62-296.320(4) (c) F.A.C.; Permit No. 0570039-025-AC]

Reports and Records

H.12. Recordkeeping and Report Duration: The quantity and type of fuel loaded and transported off-site by each fuel transloading operation emissions point covered in this permit shall be recorded and maintained. The annual quantity of each transloaded material shall be submitted in the Annual Operation Report. All reports and records required by this permit shall be kept for at least (5) years from the date the information was recorded.
[Rule 62-4.160(14)(b), F.A.C. and Permit No. 0570039-025-AC]

Subsection I. Surface Coating of Miscellaneous Metal Parts

This section addresses the following Regulated Emissions Units:

-032 Surface coating of miscellaneous metal parts

Description

These conditions apply to the surface coating of miscellaneous metal parts as defined in Rule 62-296.513, F.A.C. These parts include such things as pumps, compressors, conveyor components, fans, blowers, transformers.

The following conditions apply to the Emissions Unit listed above:

I.1. Hours of Operation. Miscellaneous metal parts surface coating operations are allowed to operate for a total 3500 hours/year.

[Rule 62-210.200, F.A.C., Definitions (PTE)]

I.2. Capacity. The total maximum coating usage shall not exceed 2 gallons per hour, on a 24-hr basis, and 7000 gallons per year.

[Rule 62-210.200, F.A.C., Definitions (PTE)]

I.3. Recordkeeping. TEC shall maintain daily records of operations for the most recent 5 year period. The records shall be made available to the local, state, or federal air pollution agency upon request. The records shall include, but not be limited to, the following:

- a. The rule number applicable to the operation for which the records are being maintained.
- b. The application method and substrate type (metal, etc.).
- c. The amount and type of adhesive, coatings (including catalyst and reducer for multicomponent coatings), solvent, and/or graphic arts material used at each point of application, including exempt compounds.
- d. The VOC content as applied in each adhesive, coating, solvent, and/or graphic arts material.
- e. The date for each application of each adhesive, coating, solvent, and/or graphic arts material.
- f. The amount of surface preparation, clean-up, wash-up of solvent (including exempt compounds) used and the VOC content of each.

[Rule 62-296.500(2)(b)1., F.A.C.]

I.4. The VOC content shall be calculated using a percent solids basis (less water and exempt solvents) for adhesives, coating, and inks, using EPA Reference Method 24.

[Rule 62-296.500(2)(b)2., F.A.C.]

I.5. Reporting. Annually, in accordance with a schedule and reporting format provided by the Department or EPCHC, TEC shall provide EPCHC with proof of compliance with the limitations in this section.

[Rule 62-296.500(2)(c), F.A.C.]

The following conditions apply to the Emissions Unit listed above if the Emissions Unit emits more than 15 pounds of VOC in any one day and 3 pounds VOC in any one hour:

I.6. Emissions Limits for surface coating of miscellaneous metal parts.

(a) No owner or operator of a coating line for miscellaneous metal parts and products shall cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of:

(1) 4.3 pounds per gallon of coating (0.52 kilograms per liter), excluding water, delivered to a coating applicator that applies clear coatings;

(2) 3.5 pounds per gallon of coating (0.42 kilograms per liter), excluding water, delivered to a coating applicator in coating application system that is air dried or forced warm air dried at temperatures up to 194 degrees Fahrenheit (90 degrees Celsius);

(3) 3.5 pounds per gallon of coating (0.42 kilograms per liter), excluding water, delivered to a coating applicator that applies extreme performance coatings; or,

(4) 3.0 pounds per gallon of coating (0.36 kilograms per liter), excluding water, delivered to a coating applicator for all other coatings and coating application systems.

(b) If more than one emission limitation in condition I.6.(a) above applies to a specific coating, then the least stringent emission limitation shall be applied.

(c) All volatile organic compound emissions from solvent washings shall be considered in the emission limitations in condition I.6.(a) above unless the solvent is directed into containers that prevent evaporation into the atmosphere.

[Rule 62-296.513(2), F.A.C.]

I.7. Control Technology. The emission limits in condition I.6.(a) above shall be achieved by: The application of low solvent coating technology.

[Rule 62-296.513(3), F.A.C.]

I.8. Test Methods and Procedures to Determine Low Solvent Technology. The test method for volatile organic compounds shall be EPA Method 24 or EPA 450/3-84-019, incorporated and adopted by reference in Chapter 62-297, F.A.C. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.]

[Rules 62-296.513(4)(a) and (c), F.A.C.]

Subsection J. Abrasive Blasting

This section addresses the following Regulated Emissions Units:

- 033 Abrasive Blast Booth with baghouse**
- 034 Abrasive Blast Media Storage with baghouse**

Description

The abrasive blast booth is used to prepare miscellaneous metal parts for surface coating. Particulate matter emissions from the abrasive blast booth are controlled by a Torit Model No. DFT 4-16 pulse jet baghouse with an inlet flow rate of 7,500 acfm. Particulate emissions from the abrasive blast media storage are controlled by a pulse jet baghouse with an inlet air flow rate of 800 dscfm.

The following conditions apply to the Emissions Units listed above:

J.1. Capacity. The maximum annual usage of abrasive blast media in the abrasive blast booth shall not exceed 300 tons per year.

[Rules 62-4.160(2), 62-210.200(PTE)]

J.2. Hours of Operation. These emissions units are each allowed to operate continuously, i.e., 8760 hours/year.

[Rule 62-210.200, F.A.C., Definitions (PTE)]

J.3. Emission Limitations. The particulate matter emissions from each baghouse shall not exceed 0.03 gr/dscf, or any visible emissions greater than 5% opacity. However, TEC may exceed these emission limits if a pollution control device for particulate matter is utilized that has an actual particulate matter collection efficiency of at least 98 percent. The opacity standard for the emissions units shall be the average opacity level achieved during the initial compliance test which established compliance with the standard, plus 5% opacity.

[Rules 62-296.712(2), F.A.C.]

J.4. Test Methods and Procedures.

(a) The test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference by reference in Chapter 62-297, F.A.C.

(b) The test method for particulate matter emissions shall be EPA Method 5, incorporated and adopted by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet.

(c) A visible emissions test indicating no visible emissions (5 percent opacity) may be submitted in lieu of a particular stack test for materials handling emissions subject to this rule, where the emissions unit is equipped with a baghouse.

(d) Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.

[Rule 62-296.712(3), F.A.C.]

J.5. Particulate matter emissions from the abrasive blasting operations shall not exceed 15 tons for any 12 consecutive month period.

[Rule 62-212.300, F.A.C.]

J.6. No used or waste oils shall be burned in the diesel compressors. The observation point for the blasting operation tests shall be at the point of maximum opacity leaving the enclosure.

[Rule 62-070(3), F.A.C.]

J.7. TEC shall maintain monthly records on the type and amount of abrasive blasting material used . A rolling 12-month total shall be kept as well.

[Rule 62-070(3), F.A.C.]

J.8. During each month that the Abrasive Blast Booth is used, a VE test must be performed. A monthly VE test is not required during any month that the Abrasive Blast Booth is not used. During each month that abrasive blast media is transferred to or from Abrasive Blast Media Storage, a VE test must be performed. A monthly VE test is not required during any month that no abrasive blast media is transferred to or from Abrasive Blast Media Storage. However, at a minimum, an annual VE test must be performed.

[USEPA objection resolution.]

Subsection K. Surface Coating of Ships

This section addresses the following Regulated Emissions Units:

-035 Surface coating of ships

Description

Surface coating maintenance of ships.

The following conditions apply to the Emissions Units listed above:

K.1. The emissions unit must comply with the attached 40 CFR 63 Subpart A – General Provisions modified for Subpart II.

[40 CFR 63 Subpart A, Rule 62-204.800, F.A.C.]

K.2. This emissions unit must also comply with the following:

40 CFR 63 Subpart II – National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)

{Source: 40 CFR 63 Subpart II (7/1/96 version), and Fed. Register revision dated 12/17/96}

63.781 Applicability

63.782 Definitions

63.783 Standards.

63.784 Compliance dates.

63.785 Compliance procedures.

63.786 Test methods and procedures.

63.787 Notification requirements.

63.788 Recordkeeping and reporting requirements.}

§ 63.781 Applicability.

(a) The provisions of this subpart apply to shipbuilding and ship repair operations at any facility that is a major source.

(b) The provisions of this subpart do not apply to coatings used in volumes of less than 200 liters (52.8 gallons) per year, provided the total volume of coating exempt under this paragraph does not exceed 1,000 liters per year (264 gallons per year) at any facility. Coatings exempt under this paragraph shall be clearly labeled as “low-usage exempt,” and the volume of each such coating applied shall be maintained in the facility’s records.

(c) The provisions of this subpart do not apply to coatings applied with hand-held, nonrefillable, aerosol containers or to unsaturated polyester resin (i.e., fiberglass lay-up) coatings. Coatings applied to suitably prepared fiberglass surfaces for protective or decorative purposes are subject to this subpart.

(d) The provisions in subpart A of this part [See specific condition K.1., General Provisions] pertaining to startups, shutdowns, and malfunctions and continuous monitoring do not apply to this source category unless an add-on control system is used to comply with this subpart in accordance with § 63.783(c).

The following specific conditions from 40 CFR Part 63, Subpart II - Shipbuilding and Ship Repair (Surface Coating) apply:

40 CFR 63.783 Standards

(a) No owner or operator of any existing or new affected source shall cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table 2 of this subpart (see attachment), as determined by the procedures described in 40 CFR 63.785(c)(1)-(4). For the compliance procedures described in 40 CFR 63.785(c)(1)-(3), VOC shall be used as a surrogate for VOHAP, and the EPA Reference Method 24 shall be used as the definitive measure for determining compliance. For the compliance procedure described in 40 CFR 63.785(c)(4), an alternative test method capable of measuring independent VOHAP shall be used to determine compliance. The method must be submitted to and approved by the Administrator.

[40 CFR 63.783(a)]

(b) Each owner or operator of a new or existing affected source shall ensure that:

(1) All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills.

(2) All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them.

[40 CFR 63.783(b)]

(c) Approval of alternative means of limiting emissions.

(1) The owner or operator of an affected source may apply to the Permitting authority for permission to use an alternative means (such as an add-on control system) of limiting emissions from coating operations. The application must include:

(i) An engineering material balance evaluation that provides a comparison of the emissions that would be achieved using the alternative means to those that would result from using coatings that comply with the limits in Table 2 of this section, or the results from an emission test that accurately measures the capture efficiency and control device efficiency achieved by the control system and the composition of the associated coatings so that the emissions comparison can be made;

(ii) A proposed monitoring protocol that includes operating parameter values to be monitored for compliance and an explanation of how the operating parameter values will be established through a performance test; and

(iii) Details of appropriate recordkeeping and reporting procedures.

(2) The Permitting authority shall approve the alternative means of limiting emissions if, in the Permitting authority's judgment, postcontrol emissions of VOHAP per volume applied solids will be no greater than those from the use of coatings that comply with the limits in Table 2 of this section.

(3) The Permitting authority may condition approval on operation, maintenance, and monitoring requirements to ensure that emissions from the source are no greater than those that would otherwise result from this subpart. [Rule 62-296.820, F.A.C.; 40 CFR 63.783(c)]

40 CFR 63.784 Compliance Dates

(a) Each owner or operator of an existing affected source shall comply by 12/16/97.
[40 CFR 63.784(a)]

(b) Each owner or operator of an existing unaffected area source that increases its emissions of (or its potential to emit) HAP such that the source becomes a major source that is subject to this subpart shall comply within 1 year after the date of becoming a major source.
[40 CFR 63.784(b)]

(c) Each owner or operator of a new or reconstructed source shall comply with this subpart according to the schedule in 40 CFR 63.6(b) of subpart A.
[40 CFR 63.784(c)]

40 CFR 63.785 Compliance Procedures

(a) For each batch of coating that is received by an affected source, the owner or operator shall (see Figure 1 for a flow diagram of the compliance procedures):

(1) Determine the coating category and the applicable VOHAP limit as specified in 40 CFR 63.783(a).

(2) Certify the as-supplied VOC content of the batch of coating. The owner or operator may use a certification supplied by the manufacturer for the batch, although the owner or operator retains liability should subsequent testing reveal a violation. If the owner or operator performs the certification testing, only one of the containers in which the batch of coating was received is required to be tested.
[40 CFR 63.785(a)]

(b) (1) In lieu of testing each batch of coating, as applied, the owner or operator may determine compliance with the VOHAP limits using any combination of the procedures described in paragraphs (c)(1), (c)(2), (c)(3), and (c)(4) of this section. The procedure used for each coating shall be determined and documented prior to application.

(2) The results of any compliance demonstration conducted by the affected source or any regulatory agency using Method 24 shall take precedence over the results using the procedures in paragraphs (c)(1), (c)(2), or (c)(3) of this section.

(3) The results of any compliance demonstration conducted by the affected source or any regulatory agency using an approved test method to determine VOHAP content shall take precedence over the results using the procedures in paragraph (c)(4) of this section.
[40 CFR 63.785(b)]

(c) (1) Coatings to which thinning solvent will not be added. For coatings to which thinning solvent (or any other material) will not be added under any circumstance or to which only water is added, the owner or operator of an affected source shall comply as follows:

(i) Certify the as-applied VOC content of each batch of coating.

(ii) Notify the persons responsible for applying the coating that no thinning solvent may be added to the coating by affixing a label to each container of coating in the batch or through another means described in the implementation plan required in 40 CFR 63.787(b).

(iii) If the certified as-applied VOC content of each batch of coating used during a calendar month is less than or equal to the applicable VOHAP limit in 40 CFR 63.783(a) (either in terms of g/L of coating or g/L of solids), then compliance is demonstrated for that calendar month, unless a violation is revealed using Method 24.

(2) Coatings to which thinning solvent will be added--coating-by-coating compliance. For a coating to which thinning solvent is routinely or sometimes added, the owner or operator shall comply as follows:

(i) Prior to the first application of each batch, designate a single thinner for the coating and calculate the maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 2) for each batch as follows:

$$R = \frac{(V_s)(VOHAP\ limit) - m_{VOC}}{D_{th}} \quad \text{Eqn. 1}$$

where:

- R = Maximum allowable thinning ratio for a given batch (L thinner/L coating as supplied);
- V_s = Volume fraction of solids in the batch as supplied (L solids/L coating as supplied);
- VOHAP limit = Maximum allowable as-applied VOHAP content of the coating (g VOHAP/L solids);
- m_{VOC} = VOC content of the batch as supplied [g VOC (including cure volatiles and exempt compounds on the HAP list)/L coating (including water and exempt compounds) as supplied];
- D_{th} = Density of the thinner (g/L).

If V_s is not supplied directly by the coating manufacturer, the owner or operator shall determine V_s as follows:

$$V_s = 1 - \frac{m_{volatiles}}{D_{avg}} \quad \text{Eqn. 2}$$

where:

- $m_{volatiles}$ = Total volatiles in the batch, including VOC, water, and exempt compounds, (g/L coating); and
- D_{avg} = Average density of volatiles in the batch (g/L).

The procedures specified in 40 CFR 63.786(d) may be used to determine the values of variables defined in this paragraph. In addition, the owner or operator may choose to construct nomographs, based on Equation 1, similar or identical to the one provided in appendix B as a means of easily estimating the maximum allowable thinning ratio.

(ii) Prior to the first application of each batch, notify painters and other persons, as necessary, of the designated thinner and maximum allowable thinning ratio(s) for each batch of the coating by affixing a label to each container of coating or through another means described in the implementation plan required in 40 CFR 63.787(b).

(iii) By the 15th day of each calendar month, determine the volume of each batch of the coating used, as supplied, during the previous month.

(iv) By the 15th day of each calendar month, determine the total allowable volume of thinner for the coating used during the previous month as follows:

$$V_{th} = \sum_{i=1}^n (R \times V_b)_i + \sum_{i=1}^n (R_{cold} \times V_{b-cold})_i$$

Eqn. 3

where:

- V_{th} = Total allowable volume of thinner for the previous month (L thinner);
- V_b = Volume of each batch, as supplied and before being thinned, used during non-cold-weather days of the previous month (L coating as supplied);
- R_{cold} = Maximum allowable thinning ratio for each batch used during cold-weather days (L thinner/L coating as supplied);
- V_{b-cold} = Volume of each batch, as supplied and before being thinned, used during cold-weather days of the previous month (L coating as supplied);
- i = Each batch of coating; and
- n = Total number of batches of the coating.

(v) By the 15th day of each calendar month, determine the volume of thinner actually used with the coating during the previous month.

(vi) If the volume of thinner actually used with the coating [paragraph (c)(3)(v) of this section] is less than or equal to the total allowable volume of thinner for the coating [paragraph (c)(3)(iv) of this section], then compliance is demonstrated for the coating for the previous month, unless a violation is revealed using Method 24.

(3) Coatings to which the same thinning solvent will be added--group compliance. For coatings to which the same thinning solvent (or other material) is routinely or sometimes added, the owner or operator shall comply as follows:

(i) Designate a single thinner to be added to each coating during the month and "group" coatings according to their designated thinner.

(ii) Prior to the first application of each batch, calculate the maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 2) for each batch of coating in the group using the equations in paragraph (c)(2) of this section.

(iii) Prior to the first application of each "batch," notify painters and other persons, as necessary, of the designated thinner and maximum allowable thinning ratio(s) for each batch in the group by affixing a label to each container of coating or through another means described in the implementation plan required in 40 CFR 63.787(b).

(iv) By the 15th day of each calendar month, determine the volume of each batch of the group used, as supplied, during the previous month.

(v) By the 15th day of each calendar month, determine the total allowable volume of thinner for the group for the previous month using Equation 3.

(vi) By the 15th day of each calendar month, determine the volume of thinner actually used with the group during the previous month.

(vii) If the volume of thinner actually used with the group [paragraph (c)(3)(vi) of this section] is less than or equal to the total allowable volume of thinner for the group [paragraph (c)(3)(v) of this section], then compliance is demonstrated for the group for the previous month, unless a violation is revealed using Method 24.

(4) Demonstration of compliance through an alternative (i.e., other than Method 24) test method.
The owner or operator shall comply as follows:

(i) Certify the as-supplied VOHAP content (g VOHAP/L solids) of each batch of coating.

(ii) If no thinning solvent will be added to the coating, the owner or operator of an affected source shall follow the procedure described in 40 CFR 63.785(c)(1), except that VOHAP content shall be used in lieu of VOC content.

(iii) If thinning solvent will be added to the coating, the owner or operator of an affected source shall follow the procedure described in 40 CFR 63.785(c)(2) or (3), except that in Equation 1: the term " m_{VOC} " shall be replaced by the term " m_{VOHAP} ," defined as the VOHAP content of the coating as supplied (g VOHAP/L coating) and the term " D_{th} " shall be replaced by the term " $D_{th(VOHAP)}$ " defined as the average density of the VOHAP thinner(s) (g/L).

[40 CFR 63.785(c)]

(d) A violation revealed through any approved test method shall result in a 1-day violation for enforcement purposes. A violation revealed through the recordkeeping procedures described in paragraphs (c)(1) through (c)(4) of this section shall result in a 30-day violation for enforcement purposes, unless the owner or operator provides sufficient data to demonstrate the specific days during which noncompliant coatings were applied.

[40 CFR 63.785(d)]

40 CFR 63.786 Test Methods and Procedures

(a) For the compliance procedures described in 40 CFR 63.785(c)(1)-(3), Method 24 of 40 CFR part 60, appendix A, is the definitive method for determining the VOC content of coatings, as supplied or as applied. When a coating or thinner contains exempt compounds that are volatile HAP or VOHAP, the owner or operator shall ensure, when determining the VOC content of a coating, that the mass of these exempt compounds is included.

[40 CFR 63.786(a)]

(b) For the compliance procedure described in 40 CFR 63.785(c)(4), the Permitting authority must approve the test method for determining the VOHAP content of coatings and thinners. As part of the approval, the test method must meet the specified accuracy limits indicated below for sensitivity, duplicates, repeatability, and reproducibility coefficient of variation each determined at the 95 percent confidence limit. Each percentage value below is the corresponding coefficient of variation multiplied by 2.8 as in the ASTM Method E180-93: Standard Practice for Determining the Precision of ASTM

Methods for Analysis and Testing of Industrial Chemicals (incorporation by reference--see 40 CFR 63.14).

Sensitivity: The overall sensitivity must be sufficient to identify and calculate at least one mass percent of the compounds of interest based on the original sample. The sensitivity is defined as ten times the noise level as specified in ASTM Method D3257-93: Standard Test Methods for Aromatics in Mineral Spirits by Gas Chromatography (incorporation by reference--see 40 CFR 63.14). In determining the sensitivity, the level of sample dilution must be factored in.

Repeatability: First, at the 0.1-5 percent analyte range the results would be suspect if duplicates vary by more than 6 percent relative and/or day to day variation of mean duplicates by the same analyst exceeds 10 percent relative. Second, at greater than 5 percent analyte range the results would be suspect if duplicates vary by more than 5 percent relative and/or day to day variation of duplicates by the same analyst exceeds 5 percent relative.

Reproducibility: First, at the 0.1-5 percent analyte range the results would be suspect if lab to lab variation exceeds 60 percent relative. Second, at greater than 5 percent range the results would be suspect if lab to lab variation exceeds 20 percent relative.

Any test method should include information on the apparatus, reagents and materials, analytical procedure, procedure for identification and confirmation of the volatile species in the mixture being analyzed, precision and bias, and other details to be reported. The reporting should also include information on quality assurance (QA) auditing.

Multiple and different analytical techniques must be used for positive identification if the components in a mixture under analysis are not known. In such cases a single column gas chromatograph (GC) may not be adequate. A combination of equipment may be need such as a GC/mass spectrometer or GC/infrared system. (If a GC method is used, the operator must use practices in ASTM Method E260-91: Standard Practice for Gas Chromatography [incorporation by reference--see 40 CFR 63.14].) . [40 CFR 63.786(b)]

(c) A coating manufacturer or the owner or operator of an affected source may use batch formulation data as a test method in lieu of Method 24 to certify the as-supplied VOC content of a coating if the manufacturer or the owner or operator has determined that batch formulation data have a consistent and quantitatively known relationship to Method 24 results. This determination shall consider the role of cure volatiles, which may cause emissions to exceed an amount based solely upon coating formulation data. Notwithstanding such determination, in the event of conflicting results, Method 24 shall take precedence.

[40 CFR 63.786(c)]

(d) Each owner or operator of an affected source shall use or ensure that the manufacturer uses the form and procedures mentioned in appendix A of this subpart to determine values for the thinner and coating parameters used in Equations 1 and 2. The owner or operator shall ensure that the coating/thinner manufacturer (or supplier) provides information on the VOC and VOHAP contents of the coatings/thinners and the procedure(s) used to determine these values.

[40 CFR 63.786(d)]

40 CFR 63.787 Notification Requirements

(a) Each owner or operator of an affected source shall comply with all applicable notification requirements in 40 CFR 63.9(a)-(d) and (i)-(j) of subpart A (General Provisions), with the exception that the deadline specified in 40 CFR 63.9(b)(2) and (3) shall be extended from 120 days to 180 days. Any owner or operator that receives approval pursuant to 40 CFR 63.783(c) of this subpart to use an add-on control system to control coating emissions shall comply with the applicable requirements of 40 CFR 63.9(e)-(h) of subpart A.
[40 CFR 63.787(a)]

(b) Implementation plan. The provisions of 40 CFR 63.9(a) (Notification requirements/Applicability and general information) of subpart A apply to the requirements of this paragraph.

(1) Each owner or operator of an affected source shall:

(i) Prepare a written implementation plan that addresses each of the subject areas specified in paragraph (b)(3) of this section; and

(ii) Not later than December 16, 1996, submit the implementation plan to the Administrator along with the notification required by 40 CFR 63.9(b)(2) or (5) of subpart A, as applicable.

(2) [Reserved]

(3) *Implementation plan contents*. Each implementation plan shall address the following subject areas:

(i) *Coating compliance procedures*. The implementation plan shall include the compliance procedure(s) under 40 CFR 63.785(c) that the source intends to use.

(ii) *Recordkeeping procedures*. The implementation plan shall include the procedures for maintaining the records required under 40 CFR 63.788, including the procedures for gathering the necessary data and making the necessary calculations.

(iii) *Transfer, handling, and storage procedures*. The implementation plan shall include the procedures for ensuring compliance with 40 CFR 63.783(b).

(4) *Major sources that intend to become area sources by the compliance date*. Existing major sources that intend to become area sources by the December 16, 1997 compliance date may choose to submit, in lieu of the implementation plan required under paragraph (b)(1) of this section, a statement that, by the compliance date, the major source intends to obtain and comply with federally enforceable limits on their potential to emit which make the facility an area source.

[40 CFR 63.787(b)]

40 CFR 63.788 Recordkeeping and reporting requirements.

(a) Each owner or operator of an affected source shall comply with the applicable recordkeeping and reporting requirements in 40 CFR 63.10(a), (b), (d), and (f) of subpart A (General Provisions). Any owner that receives approval pursuant to 40 CFR 63.783(c) of this subpart to use an add-on control system to control coating emissions shall also comply with the applicable requirements of 40 CFR 63.10(c) and (e). A summary of recordkeeping and reporting requirements is provided in Table 3. [40 CFR 63.788(a)]

(b) Recordkeeping requirements.

(1) Each owner or operator of a major source shipbuilding or ship repair facility having surface coating operations with less than 1000 liters (264 gallons) annual marine coating usage shall record the total volume of coating applied at the source to ships. Such records shall be compiled monthly and maintained for a minimum of 5 years.

(2) Each owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of 5 years. At a minimum, these records shall include:

- (i) All documentation supporting initial notification;
- (ii) A copy of the affected source's approved implementation plan;
- (iii) The volume of each low-usage-exempt coating applied;
- (iv) Identification of the coatings used, their appropriate coating categories, and the applicable VOHAP limit;
- (v) Certification of the as-supplied VOC content of each batch of coating;
- (vi) A determination of whether containers meet the standards as described in 40 CFR 63.783(b)(2); and
- (vii) The results of any Method 24 or approved VOHAP measurement test conducted on individual containers of coating, as applied.

(3) The records required by paragraph (b)(2) of this section shall include additional information, as determined by the compliance procedure(s) described in 40 CFR 63.785(c) that each affected source followed:

(i) Coatings to which thinning solvent will not be added. The records maintained by facilities demonstrating compliance using the procedure described in 40 CFR 63.785(c)(1) shall contain the following information:

- (A) Certification of the as-applied VOC content of each batch of coating; and
- (B) The volume of each coating applied.

(ii) Coatings to which thinning solvent will be added--coating-by-coating compliance. The records maintained by facilities demonstrating compliance using the procedure described in 40 CFR 63.785(c)(2) shall contain the following information:

- (A) The density and mass fraction of water and exempt compounds of each thinner and the volume fraction of solids (nonvolatiles) in each batch, including any calculations;
- (B) The maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 2 of this subpart) for each batch of coating, including calculations;
- (C) If an affected source chooses to comply with the cold-weather limits, the dates and times during which the ambient temperature at the affected source was below 4.5°C (40°F) at the time the coating was applied and the volume used of each batch of the coating, as supplied, during these dates;

- (D) The volume used of each batch of the coating, as supplied;
- (E) The total allowable volume of thinner for each coating, including

calculations; and

- (F) The actual volume of thinner used for each coating.

(iii) Coatings to which the same thinning solvent will be added--group compliance. The records maintained by facilities demonstrating compliance using the procedure described in 40 CFR 63.785(c)(3) shall contain the following information:

(A) The density and mass fraction of water and exempt compounds of each thinner and the volume fraction of solids in each batch, including any calculations;

(B) The maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 2) for each batch of coating, including calculations;

(C) If an affected source chooses to comply with the cold-weather limits, the dates and times during which the ambient temperature at the affected source was below 4.5°C (40°F) at the time the coating was applied and the volume used of each batch in the group, as supplied, during these dates;

(D) Identification of each group of coatings and their designated thinners;

(E) The volume used of each batch of coating in the group, as supplied;

(F) The total allowable volume of thinner for the group, including calculations;

and

(G) The actual volume of thinner used for the group.

(iv) Demonstration of compliance through an alternative (i.e., non-Method 24) test method. The records maintained by facilities demonstrating compliance using the procedure described in 40 CFR 63.785(c)(4) shall contain the following information:

(A) Identification of the Permitting authority-approved VOHAP test method or certification procedure;

(B) For coatings to which the affected source does not add thinning solvents, the source shall record the certification of the as-supplied and as-applied VOHAP content of each batch and the volume of each coating applied;

(C) For coatings to which the affected source adds thinning solvent on a coating-by-coating basis, the source shall record all of the information required to be recorded by paragraph (b)(3)(ii) of this section; and

(D) For coatings to which the affected source adds thinning solvent on a group basis, the source shall record all of the information required to be recorded by paragraph (b)(3)(iii) of this section.

(4) If the owner or operator of an affected source detects a violation of the standards specified in 40 CFR 63.783, the owner or operator shall, for the remainder of the reporting period during which the violation(s) occurred, include the following information in his or her records:

(i) A summary of the number and duration of deviations during the reporting period, classified by reason, including known causes for which a Federally-approved or promulgated exemption from an emission limitation or standard may apply.

(ii) Identification of the data availability achieved during the reporting period, including a summary of the number and total duration of incidents that the monitoring protocol failed to perform in accordance with the design of the protocol or produced data that did not meet minimum data accuracy and precision requirements, classified by reason.

(iii) Identification of the compliance status as of the last day of the reporting period and whether compliance was continuous or intermittent during the reporting period.

(iv) If, pursuant to paragraph (b)(4)(iii) of this section, the owner or operator identifies any deviation as resulting from a known cause for which no Federally-approved or promulgated exemption from an emission limitation or standard applies, the monitoring report shall also include all

records that the source is required to maintain that pertain to the periods during which such deviation occurred and:

- (A) The magnitude of each deviation;
- (B) The reason for each deviation;
- (C) A description of the corrective action taken for each deviation, including action taken to minimize each deviation and action taken to prevent recurrence; and
- (D) All quality assurance activities performed on any element of the monitoring protocol.

[40 CFR 63.788(b)]

(c) Reporting requirements. Before the 60th day following completion of each 6-month period after the compliance date specified in 40 CFR 63.784, each owner or operator of an affected source shall submit a report to the Permitting authority for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to paragraphs (b)(2)-(3) of this section, except for that information specified in paragraphs (b)(2)(i)-(ii), (b)(2)(v), (b)(3)(i)(A), (b)(3)(ii)(A), and (b)(3)(iii)(A). If a violation at an affected source is detected, the source shall also report the information specified in paragraph (b)(4) of this section for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source.

[40 CFR 63.788(c)]

Subsection L. Limestone Handling System for FGD System for Units 1 & 2

This section addresses the following Regulated Emissions Units:

- 020 Drops from limestone conveyors LE, LF and LG and Silo C belt feeder with baghouse**
- 021 Silo C with one baghouse**

Description

Components of the limestone handling system provide limestone for the FGD system. The components are Silo C and its related rotary unloader, belt feeder and wet ball mill, and reversible belt conveyors LF and LG. Conveyors LF and LG replace an existing bifurcated chute which feeds from conveyor LE to silos A and B. Particulate emissions from drops from limestone handling conveyors LE, LF and LG and the silo C belt feeder are controlled by a baghouse: American Air Filter Fabripulse - Model B, size 12-72-1155. Particulate emissions from displaced air in silo C will be controlled by a baghouse: American Air Filter Fabripak, size 6-16-132. The wet ball mill is a wet process with no expected particulate emissions.

[Note: These emissions units are subject to 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60.670 - 60.676) and 40 CFR 60 Subpart A; Rule 1-3.61, Rules of the Environmental Protection Commission (EPC) of Hillsborough County; Rule 62-296.700, F.A.C.; and are subject to the requirements of the state rules as indicated in this permit. The visible emission limit of specific condition 16 is more stringent than the limitations of 40 CFR 60.672(a)(2) and 60.672(f), and compliance with this limit will assure compliance with those requirements.]

The following conditions apply to the Emissions Units listed above:

OPERATIONAL REQUIREMENTS

- L.1. Hours of Operation: These emissions units may operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200, F.A.C., Definitions-potential to emit (PTE)]
- L.2. Enclosure of Equipment: All conveyors and conveyor transfer points shall be enclosed and exhaust from this equipment shall be directed to a baghouse to minimize particulate matter emissions. [62-4.070(3),F.A.C.]
- L.3. Operating Procedures: Enclosures and baghouses for these emissions units shall be properly operated and maintained at all times in a condition to minimize particulate emissions. The owner and operator shall ensure that all facility staff responsible for these emissions units are trained in their operation and maintenance in accordance with the guidelines and procedures as established by the equipment manufacturers. [Rule 62-4.070(3), F.A.C.]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

- L.4. Particulate and Visible Emissions: No owner or operator shall cause or allow visible emissions from the baghouses controlling these emissions units in excess of 0.03 gr/dscf and 5% opacity. [40 CFR 60.672(a)(1) and (2); Rules 62-4.070(3) and Rule 62-296.711(2)(b), F.A.C., Rule 1-3.61, Rules of the EPC, and request of applicant (VE limit)]

[Note: The visible emission limit of this condition is more stringent than the limitations of 40 CFR 60.672(a)(2) and 60.672(f), and compliance with this limit will assure compliance with those requirements.]

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

- L.5. Visible Emissions Tests: Compliance with the visible emission limits of this permit shall be demonstrated by an annual compliance test using EPA Method 9. The duration of initial tests shall

be three hours and the duration of subsequent annual tests shall be thirty minutes.
[Rules 62-4.070(3) and 62-297.310(4)(a)2., F.A.C., and 40 CFR 60.11(b)]

[Note: The three hour duration of initial tests complies with the requirements of the NSPS and the thirty minute duration of subsequent tests complies with state rules.]

L.6. Visible Emissions Tests in Lieu of Stack Tests, Emissions Unit 020: After passing the initial test required by specific condition L.9., the owner or operator is permitted to comply with the visible emission limit of specific condition L.4. and the testing requirement of specific condition L.5. in lieu of regularly demonstrating compliance with the limitations of 40 CFR 60.672(a)(1) and (2) and the particulate matter limitation of specific condition L.4. If the Department has reason to believe that the particulate weight emission limit of 40 CFR 60.672(a)(1) or the particulate matter limitation of specific condition L.4. is not being met, it shall require compliance be demonstrated by the test method specified by 40 CFR 60.675. [Rules 62-4.070(3) and 62-297.620(4), F.A.C.]

REPORTING AND RECORD KEEPING REQUIREMENTS

L.7. Records of Maintenance: The owner or operator shall make and maintain records of maintenance on the enclosures and baghouses sufficient to demonstrate compliance with the operating procedures requirements of specific condition L.3. [Rule 62-4.070(3), F.A.C.]

NSPS SUBPART OOO REQUIREMENTS

[Note: The numbering of the original rules in the following conditions has been preserved for ease of reference to the rules. The definitions of terms of this part shall have the meanings as defined in 40 CFR 60.671 Definitions. The term "Administrator" when used in 40 CFR 60 shall mean the Secretary or the Secretary's designee.]

L.8. Pursuant to 40 CFR 60.672 Standard for Particulate Matter:

[Note: The requirements of 40 CFR 60.672(a)(1) and (2) apply to emissions unit 020, and the requirements of 40 CFR 60.672(f) apply to emissions unit 021.]

- (a) No owner or operator shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:
- (1) Contain particulate matter in excess of 0.05 g/dscm; and
 - (2) Exhibit greater than 7 percent opacity.

[Note: The emission limit of specific condition L.4. is more stringent than the limitation of 40 CFR 60.672(a)(2).]

- (f) No owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7 percent opacity.

[Note: The emission limit of specific condition L.4. is more stringent than the limitation of 40 CFR 60.672(f). See the note for that condition.]

L.9. Pursuant to 40 CFR 60.675 Test Methods and Procedures:

- (a) In conducting the performance tests required in 40 CFR 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of 40 CFR 60 or other methods and procedures as specified in this section, except as provided in 40 CFR 60.8(b).
- (b) The owner or operator shall determine compliance with the particulate matter standards in 40 CFR 60.672(a) as follows:
 - (1) Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.
 - (2) Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity. [Note: The owner or operator is required to demonstrate compliance with the particulate matter emission limitation of 40 CFR 60.672(a)(1) by performing and passing an initial particulate matter test in accordance with the requirements of this section, unless such requirement is waived by the US Environmental Protection Agency. No subsequent regular annual particulate matter testing is required. The owner or operator is permitted to comply with the visible emission limit of specific condition L.4. in lieu of regularly demonstrating compliance with the limitations of 40 CFR 60.672(a)(1) and (2). See also specific condition L.6.]
- (c) (2) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under 40 CFR 60.672(f) of this subpart, using Method 9, the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages). [Note: The initial Method 9 test duration for emissions unit 021 is one hour pursuant to 40 CFR 60.675(c)(2), while the initial Method 9 test duration for emissions unit 020 is 3 hours pursuant to 40 CFR 60.11(b). Subsequent annual Method 9 tests shall be conducted for 30 minutes for emissions units 020 and 021.]
- (g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

L.10. Pursuant to 40 CFR 60.676 Reporting and Recordkeeping:

- (f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672 of this subpart.
- (h) The subpart A requirement under 40 CFR 60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.
- (i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.
 - (1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

L.11. The attached 40 CFR 60 Subpart A NSPS General Provisions also apply to these emissions units.

Subsection M. Lime Silo for Wastewater Treatment Plant for the Chloride Bleed Stream

This section addresses the following Regulated Emissions Units:

-022 Lime silo with one baghouse for the waste water treatment plant for the chloride bleed stream

Description

A lime silo with one baghouse (Griffin Environmental 36-LS Filter Vent) which supplies limestone to the wastewater treatment plant for the FGD chloride bleed stream. This plant will serve the new and existing FGD systems. Particulate emissions from displaced air from periodically filling the lime silo will be controlled with the related baghouse.

[Note: This emissions unit is subject to the requirements of the state rules as indicated in this permit. This emissions unit is subject to Rule 1-3.61, Rules of the Environmental Protection Commission (EPC) of Hillsborough County, but it exempt from the requirements of Rule 62-296.711, F.A.C., pursuant to Rule 62-296.700(2)(c), F.A.C., because it has an allowable emission rate of less than one ton per year.]

The following conditions apply to the Emissions Unit listed above:

OPERATIONAL REQUIREMENTS

- M.1. Hours of Operation: This emissions units may operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200, F.A.C., Definitions-potential to emit (PTE)]
- M.2. Operating Procedures: The baghouse for this emissions unit shall be properly operated and maintained at all times in a condition to minimize particulate emissions. The owner and operator shall ensure that all facility staff responsible for these emissions units are trained in their operation and maintenance in accordance with the guidelines and procedures as established by the equipment manufacturers. [Rule 62-4.070(3), F.A.C.]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

- M.3. Particulate and Visible Emissions: No owner or operator shall cause or allow visible emissions from the baghouse controlling this emissions unit in excess of 0.03 gr/dscf and 5% opacity. [Rules 62-4.070(3) and 62-296.700(2)(c), F.A.C.]

[Note: The particulate matter limitation will ensure that allowable emissions are less than one ton per year for this emissions unit.]

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

- M.4. Visible Emissions Tests: Compliance with the visible emission limit of this permit shall be demonstrated by an annual compliance test using EPA Method 9. The duration of annual tests shall be thirty minutes. [Rules 62-4.070(3) and 62-297.310(4)(a)2., F.A.C.]
- M.5. Visible Emissions Tests in Lieu of Stack Tests: The owner or operator is permitted to comply with the visible emission limit of specific condition M.3. and the testing requirement of specific condition M.4. of this section in lieu of regularly demonstrating compliance with the particulate matter limitation of specific condition M.3. of this section. If the Department has reason to believe that the particulate matter limitation of specific condition M.3. of this section is not being met, it shall require compliance be demonstrated by conducting a particulate matter test in accordance with EPA Method 5 specified at 40 CFR 60 Appendix A. [Rules 62-4.070(3) and 62-297.620(4), F.A.C.]

REPORTING AND RECORD KEEPING REQUIREMENTS

M.6. Records of Maintenance: The owner or operator shall make and maintain records of maintenance on the baghouse sufficient to demonstrate compliance with the operating procedures requirements of specific condition M.2. [Rule 62-4.070(3), F.A.C.]

M.7. Tampa Electric shall keep records of facility staff training, and shall maintain, on site, an Operations and Maintenance Plan for the baghouse that details how it shall be properly operated and maintained at all times. Tampa Electric shall also take weekly pressure readings from the baghouse pressure-sensing device.

[USEPA objection resolution.]

Subsection N. Common Conditions

This section addresses the all of the Regulated Emissions Units:

{Permitting note: For emissions units subject to NESHAP or NSPS requirements, when more stringent, the requirements of the NESHAPS or NSPS supercede these common conditions.}

N.1. Compliance Test Notification. TECO shall notify the EPCHC, 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 TECO.
[Rule 62-297.310(7)(a)9., F.A.C.]

N.2. Special Compliance Tests. When, after inspection, the Department or the Environmental Protection Commission of Hillsborough County 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 Tampa Electric Company to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emission unit and to provide a report on the results of said test to the requesting agency.
[Rule 62-297.310(7)(b), F.A.C.]

GENERAL TEST REQUIREMENTS

N.3. Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.
[Rule 297.310(1), F.A.C.]

N.4. Operating Rate During Testing for Emission Units other than Combustion Turbines. Unless otherwise stated an emission unit's specific condition in this permit, testing of emissions shall be conducted with the emissions unit operation at 90 to 100 percent of the maximum operation rate allowed by specific condition in this permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.
[Rule 62-297.310(2), F.A.C.]

N.5. Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule.

[Rule 62-297.310(3), F.A.C.]

N.6. Applicable Test Procedures.

(a) Required Sampling Time.

1. Unless otherwise specified in the specific conditions of this permit, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

a. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.

b. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

(b) Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.

(c) Required Flow Rate Range. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.

(d) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1 (see attachment).

(e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.

[Rule 297.310(4), F.A.C.]

N.7. Determination of Process Variables.

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

N.8. Frequency of Compliance Tests. The following provisions apply to those emissions units that are subject to an emissions limiting standard for which compliance testing is required, unless otherwise provided in a specific emission unit condition of this permit.

(a) General Compliance Testing.

1. The owner or operator of a new or modified emissions unit that is subject to an emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit.

2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid and/or solid fuel for more than 400 hours other than during startup.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

a. Did not operate; or

b. In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

a. Visible emissions, if there is an applicable standard;

b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and

c. Each NESHAP pollutant, if there is an applicable emission standard.

5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid and/or solid fuel, other than during startup, for a total of more than 400 hours.

6. For fossil fuel steam generators on a semi-annual particulate matter emission compliance testing schedule, a compliance test shall not be required for any six-month period in which liquid and/or solid fuel is not burned for more than 200 hours other than during startup.

7. For emissions units electing to conduct particulate matter emission compliance testing quarterly pursuant to Rule 62-296.405(2)(a), F.A.C., a compliance test shall not be required for any quarter in which liquid and/or solid fuel is not burned for more than 100 hours other than during startup.

8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

9. The owner or operator shall notify the Department and the Environmental Protection Commission of Hillsborough County, 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 owner or operator.

10. An annual compliance test conducted for visible emissions shall not be required for units exempted from permitting at Rule 62-210.300(3)(a), F.A.C., or units permitted under the General Permit provisions at Rule 62-210.300(4), F.A.C.

(b) *Special Compliance Tests.* When the Department or Environmental Protection Commission of Hillsborough County, 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 and to provide a report on the results of said tests to the Department and the Environmental Protection Commission of Hillsborough County.

(c) *Waiver of Compliance Test Requirements.* If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.

[Rule 62-297.310(7), F.A.C.]

N.9. Test Reports.

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department and the EPCHC on the results of each such test.

(b) The required test report shall be filed with the EPCHC as soon as practical but no later than 45 days after the last sampling run of each test is completed.

(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the EPCHC and the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.

12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the EPCHC or the Department, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rule 62-297.310(8), F.A.C.]

Subsection O. Coal Residual Storage and Transfer

This section addresses the following Regulated Emissions Units:

- 037 Coal Residual Storage Facility
- 038 Coal Residual Transfer System

Description: Enclosed storage and transfer of coal residual received from the Polk Power Station. A nominal 25-ton dump truck empties a load of material into the building, and a bulldozer either pushes the material into a vacant area of the building, or it pushes the material directly into the dozer trap in the rear of the building. The dozer trap is a hopper that is partially below grade, and is used to feed the conveyor, which is capable of transferring up to 200 tons of material per hour. The conveyor is fully enclosed to prevent fugitive dust emissions, and to also prevent wetting of the material. Material inside the building will be periodically sprayed with water in an effort to minimize dust within the building.

The following conditions apply to the Emissions Units listed above:

EMISSION LIMITATIONS

O.1. Visible emissions shall not exceed 5% opacity in lieu of particulate sampling.

[Rule 62-297.620(4), F.A.C., and Permit No. 0570039-012-AC]

O.2. All conveyors and conveyor transfer points shall be enclosed to minimize particulate matter emissions. The coal residual shall be stored in an enclosed facility. Open storage of coal residual is prohibited. [Rule 62-296.320(4)(c), F.A.C., and Permit No. 0570039-012-AC]

O.3. The maximum conveyor transfer rate shall be 200 tons per hour and 255,500 tons per year of coal residual that has been generated at the Polk Power Station gasification process. [0570039-012-AC]

TEST METHODS AND COMPLIANCE PROCEDURES

O.4. Tampa Electric shall perform annual visible emissions tests for the storage facility and transfer system. Sites to be tested shall be determined by EPCHC. [Permit No. 0570039-012-AC]

[Permit No. 0570039-012-AC]

O.5. Compliance with the allowable visible emissions limitation shall be determined by using the following reference method as described in 40 CFR 60, Appendix A, adopted by reference in Chapter 62-204, F.A.C.: Method 9 Visual Determination of the Opacity of Emissions from Stationary Sources.

[Permit No. 0570039-012-AC]

O.6. TEC shall keep records of the following parameters for each specific month/day/year:

- A) Amount of raw coal residual charged (tpd)
- B) Amount of refined/beneficiated coal residual charged (tpd)

[Permit No. 0570039-012-AC]

O.7. TEC shall also keep records of:

- A) Annual amount of raw coal residual charged (tpy)
- B) Annual amount of refined/beneficiated coal residual charged (tpy)
- C) Annual VE tests.

[Permit No. 0570039-012-AC]

Section IV. This section is the Phase II Acid Rain Part.

Operated by: Tampa Electric Company

ORIS code: 0645

The emissions units listed below are regulated under Acid Rain:

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-001	Unit No. 1 Steam Generator [EPA ID #: BB01]
-002	Unit No. 2 Steam Generator [EPA ID #: BB02]
-003	Unit No. 3 Steam Generator [EPA ID #: BB03]
-004	Unit No. 4 Steam Generator [EPA ID #: BB04]

1. The Phase II permit application, the Phase II NO_x compliance plan, and the Phase II NO_x averaging plan submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:

DEP Form No. 62-210.900(1)(a), version 6/16/03, received 9/27/04 (signed 6/07/04).

DEP Form No. 62-210.900(1)(a)4., F.A.C., received 9/27/04 (signed 9/27/04).

DEP Form No. 62-210.900(1)(a)5., F.A.C., received 6/28/04 (signed 6/07/04).

[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

2. Sulfur dioxide (SO₂) allowance allocations and nitrogen oxide (NO_x) requirements for each Acid Rain unit are as follows:

E.U. ID No.	EPA ID		Year				
			2000	2001	2002	2003	2004
-001	BB01	SO ₂ allowances, under Table 2 of 40 CFR 73	12132*	12132*	12132*	12132*	12132*
		NO _x limit**	<p>Note: The applicable emission limitation, under 40 CFR 76.6(a)(3), is 0.84 lb/MMBtu.</p> <p>2.a. Pursuant to 40 CFR 76.11, the Florida Department of Environmental Protection approves the NO_x emissions averaging plan submitted on 6/28/04 for this unit. Under the plan, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.74 lb/MMBtu. In addition, this unit shall have an annual heat input of limit 35,364,120 MMBtu.</p>				

E.U. ID No.	EPA ID		Year				
			2000	2001	2002	2003	2004
-002	BB02	SO ₂ allowances, under Table 2 of 40 CFR 73	12196*	12196*	12196*	12196*	12196*
		NO _x limit**	<p>Note: The applicable emission limitation, under 40 CFR 76.6(a)(3), is 0.84 lb/mmBtu.</p> <p>2.b. Pursuant to 40 CFR 76.11, the Florida Department of Environmental Protection approves the NO_x emissions averaging plan submitted on 6/28/04 for this unit. Under the plan, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.74 lb/MMBtu. In addition, this unit shall have an annual heat input limit of 35,004,960 MMBtu.</p>				
-003	BB03	SO ₂ allowances, under Table 2 of 40 CFR 73	11444*	11444*	11444*	11444*	11444*
		NO _x limit**	<p>Note: The applicable emission limitation, under 40 CFR 76.6(a)(3), is 0.84 lb/mmBtu.</p> <p>2.c. Pursuant to 40 CFR 76.11, the Florida Department of Environmental Protection approves the NO_x emissions averaging plan submitted on 6/28/04 for this unit. Under the plan, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.53 lb/MMBtu. In addition, this unit shall have an annual heat input limit of 36,047,400 MMBtu.</p>				

E.U. ID No.	EPA ID		Year				
			2000	2001	2002	2003	2004
-004	BB04	SO ₂ allowances, under Table 2 of 40 CFR 73	8780*	8780*	8780*	8780*	8780*
		NO _x limit**	<p>Note: The applicable emission limitation, under 40 CFR 76.5(a)(1), is 0.45 lb/mmBtu.</p> <p>2.d. Pursuant to 40 CFR 76.11, the Florida Department of Environmental Protection approves the NO_x emissions averaging plan submitted on 6/28/04 for this unit. Under the plan, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.44 lb/MMBtu. In addition, this unit shall have an annual heat input limit of 36,047,400 MMBtu.</p>				

*The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the USEPA under Table 2 of 40 CFR 73. "Allowance" means an authorization by the USEPA Administrator under the federal Acid Rain Program to emit up to one ton of sulfur dioxide during a specified calendar year.

** Based on the Phase II NO_x applications.

2.e. Additional Requirements

i. Under the plan (NO_x Phase II averaging plan), the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in accordance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

ii. In addition to the described NO_x compliance plan, these units shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_x compliance plan and requirements covering excess emissions.

3. Emission Allowances. Emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.

a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.

b. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.

c. Allowances shall be accounted for under the Federal Acid Rain Program.
[Rule 62-213.440(1)(c), F.A.C.]

4. Fast-Track Revisions of Acid Rain Parts. Those Acid Rain sources making a change described at Rule 62-214.370(4), F.A.C., may request such change as provided in Rule 62-213.413, F.A.C.
[Rules 62-213.413 and 62-214.370(4), F.A.C.]

5. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400, F.A.C.
[40 CFR 70.6(a)(4)(i); and, Rule 62-213.440(1)(c)1., F.A.C.]

6. Where an applicable requirement of the Act is more stringent than applicable regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.
[40 CFR 70.6(a)(1)(ii); and, Rule 62-210.200, F.A.C., Definitions – Applicable Requirements.]

7. Comments, notes, and justifications:

On 6/07/04, the Certificate of Representation was signed by Gregory M. Nelson, designated representative, and Laura R. Couch, alternate designated representative.

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers (version dated 02/05/97)

Abbreviations and Acronyms:

°F: Degrees Fahrenheit
BACT: Best Available Control Technology
CFR: Code of Federal Regulations
DEP: State of Florida, Department of Environmental Protection
DARM: Division of Air Resource Management
EPA: United States Environmental Protection Agency
F.A.C.: Florida Administrative Code
F.S.: Florida Statute
ISO: International Standards Organization
LAT: Latitude
LONG: Longitude
MMBtu: million British thermal units
MW: Megawatt
ORIS: Office of Regulatory Information Systems
SOA: Specific Operating Agreement
UTM: Universal Transverse Mercator

Citations:

The following examples illustrate the methods used in this permit to abbreviate and cite the references of rules, regulations, guidance memorandums, permit numbers, and ID numbers.

Code of Federal Regulations:

Example: [40 CFR 60.334]

Where:	40	reference to	Title 40
	CFR	reference to	Code of Federal Regulations
	60	reference to	Part 60
	60.334	reference to	Regulation 60.334

Florida Administrative Code (F.A.C.) Rules:

Example: [Rule 62-213, F.A.C.]

Where:	62	reference to	Title 62
	62-213	reference to	Chapter 62-213
	62-213.205	reference to	Rule 62-213.205, F.A.C.

ISO: International Standards Organization refers to those conditions at 288 degrees K, 60 percent relative humidity, and 101.3 kilopascals pressure.

**Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
(version dated 02/05/97) (continued)**

Identification Numbers:

Facility Identification (ID) Number:

Example: Facility ID No.: 1050221

Where:

105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by state database.

Permit Numbers:

Example: 1050221-002-AV, or
1050221-001-AC

Where:

AC = Air Construction Permit
AV = Air Operation Permit (Title V Source)
105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by permit tracking database
001 or 002 = 3-digit sequential project number assigned by permit tracking database

Example: PSD-FL-185
PA95-01
AC53-208321

Where:

PSD = Prevention of Significant Deterioration Permit
PA = Power Plant Siting Act Permit
AC = old Air Construction Permit numbering

Appendix I-1: List of Insignificant Emissions Units and/or Activities

Tampa Electric Company
Big Bend Station

FINAL Title V Operation Permit Revision No.: 0570039-028-AV
Facility ID No.: 0570039

Page 1 of 2

The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Full Exemptions, are exempt from the permitting requirements of Chapters 62-210 and 62-4, F.A.C.; provided, however, that exempt emissions units shall be subject to any applicable emission limiting standards and the emissions from exempt emissions units or activities shall be considered in determining whether a facility containing such emissions units or activities would be subject to any applicable requirements. Emissions units and pollutant-emitting activities exempt from permitting under Rule 62-210.300(3)(a), F.A.C., are also exempt from the permitting requirements of Chapter 62-213, F.A.C., provided such emissions units and activities also meet the exemption criteria of Rule 62-213.430(6)(b), F.A.C. The below listed emissions units and/or activities are hereby exempt pursuant to Rule 62-213.430(6), F.A.C.

Brief Description of Emissions Units and/or Activities

1. Internal combustion engines in boats, aircraft and vehicles used for transportation of passengers or freight.
2. Cold storage refrigeration equipment, except for any such equipment located at a Title V source using an ozone-depleting substance regulated under 40 CFR Part 82.
3. Vacuum pumps in laboratory operations.
4. Equipment used for steam cleaning.
5. Belt or drum sanders having a total sanding surface of five square feet or less and other equipment used exclusively on wood or plastics or their products having a density of 20 pounds per cubic foot or more.
6. Equipment used exclusively for space heating, other than boilers.
7. Laboratory equipment used exclusively for chemical or physical analyses.
8. Brazing, soldering or welding equipment.
9. One or more emergency generators located within a single facility provided:
 - a. None of the emergency generators is subject to the Federal Acid Rain Program; and
 - b. Total fuel consumption by all such emergency generators within the facility is limited to 32,000 gallons per year of diesel fuel, 4,000 gallons per year of gasoline, 4.4 million standard cubic feet per year of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.
10. One or more heating units and general purpose internal combustion engines located within a single facility provided:
 - a. None of the heating units or general purpose internal combustion engines is subject to the Federal Acid Rain Program; and
 - b. Total fuel consumption by all such heating units and general purpose internal combustion engines within the facility is limited to 32,000 gallons per year of diesel fuel, 4,000 gallons per year of gasoline, 4.4 million standard cubic feet per year of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.
11. Fire and safety equipment.
12. Degreasing units using heavier-than-air vapors exclusively, except any such unit using or emitting any substance classified as a hazardous air pollutant.
13. No. 2 and No. 6 fuel oil storage tanks that are not regulated by 40 CFR 60 Subpart Kb.
14. No. 2 and No. 6 fuel oil truck unloading equipment.

Appendix I-1: List of Insignificant Emissions Units and/or Activities

Tampa Electric Company
Big Bend Station

FINAL Title V Operation Permit Revision No.: 0570039-028-AV
Facility ID No.: 0570039

Page 2 of 2

15. Equipment for physically treating fuel oil by filtration, water separation, etc.
16. Non-halogenated solvent storage and cleaning operations not regulated by 40 CFR 63.
17. Architectural & equipment maintenance painting.
18. Surface coating operations within a single facility if the total quantity of coatings containing greater than 5.0 percent VOCs, by volume, used is 6.0 gallons per day or less, averaged monthly, provided:
 - a. Such operations are not subject to a volatile organic compound Reasonably Available Control Technology (RACT) requirement of Chapter 62-296, F.A.C.
 - b. The amount of coating used shall include any solvents and thinners used in the process including those used for cleanup.
 - c. Such operations are not subject to 40 CFR 63.
19. Surface coating operations utilizing only coatings containing 5.0 percent or less VOCs, by volume, and the operations are not subject to 40 CFR 63.
20. Evaporation of up to 150,000 gallons per year of nonhazardous boiler chemical cleaning waste that was generated on site.
21. Any other emissions unit or activity shall be considered insignificant if all of the following criteria are met:
 - a. Such unit or activity would be subject to no unit-specific applicable requirement.
 - b. Such unit or activity, in combination with other units and activities proposed as insignificant, would not cause the facility to exceed any major source threshold(s) as defined in subparagraph 62-213.420(3)(c)1., F.A.C., unless it is acknowledged in the permit application that such units or activities would cause the facility to exceed such threshold(s).
3. Such unit or activity would neither emit nor have the potential to emit:
 - a. 500 pounds per year or more of lead and lead compounds expressed as lead;
 - b. 1,000 pounds per year or more of any hazardous air pollutant;
 - c. 2,500 pounds per year or more of total hazardous air pollutants; or
 - d. 5.0 tons per year or more of any other regulated pollutant.

Note:

None of the emissions units or activities listed 1 through 20 above shall be considered insignificant if:

1. Such unit or activity would be subject to any unit-specific applicable requirement;
2. Such unit or activity, in combination with other units and activities proposed for exemption, would cause the facility to exceed any major source threshold(s) as defined in Rule 62-213.420(3)(c)1., F.A.C., unless it is acknowledged in the permit application that such units or activities would cause the facility to exceed such threshold(s); or
3. Such unit or activity would emit or have the potential to emit:
 - a. 500 pounds per year or more of lead and lead compounds expressed as lead;
 - b. 1,000 pounds per year or more of any hazardous air pollutant;
 - c. 2,500 pounds per year or more of total hazardous air pollutants; or
 - d. 5.0 tons per year or more of any other regulated pollutant.

[Rule 62-213.430(6), F.A.C.]

Appendix U-1: List of Unregulated Emissions Units and Activities

Tampa Electric Company
Big Bend Station

FINAL Title V Operation Permit Revision No.: 0570039-028-AV
Facility ID No.: 0570039

Unregulated Emissions Units and/or Activities. An emissions unit which emits no “emissions-limited pollutant” and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

The below listed emissions units and/or activities are neither ‘regulated emissions units’ nor ‘exempt emissions units’.

E.U. ID

No.

Brief Description of Emissions Units and/or Activities

-036

Slag and bottom ash sources BH-001 through BH-004

Gypsum handling and storage sources GH-001 through GH-017

No. 2 Fuel Oil Storage Tanks > 550 gallons

Vehicle Refueling Operations

Turbine Vapor Extractor

Appendix H-1: Permit History

**Tampa Electric Company
Big Bend Station**

**Title V Operation Permit Revision No.: 0570039-028-AV
Facility ID No.: 0570039**

E.U. ID No.	Description	Permit No.	Effective Date	Expiration Date	Project Type
003	Unit No. 3 Steam Generator – Removed the sulfur content limit of the petroleum coke fired and revised the vanadium content limit in the petroleum coke ash.	AO-29-179911	09-07-2000	12-31-01	State AO permit revision
004	Unit No. 4 Steam Generator – Removed the sulfur content limit of the petroleum coke fired and revised the vanadium content limit in the petroleum coke ash.	0570039-008-AC	12-29-00	01-01-01	PSD Construction: minor modification
001 - 036	All emission units	0570039-002-AV	01-01-01	12-31-04	Title V: Initial
004	Unit No. 4 Steam Generator – Revised the revision to the vanadium content limit.	0570039-009-AC	05-07-01	05-07-06	PSD Construction: minor modification
001 - 036	All emissions units	0570039-010-AV	07-24-01	12-31-04	Title V: Revision
001 - 004, 037 - 038	Allowed the storage, transfer and firing of Polk Power Station coal residual	0570039-012-AC	10-04-01	12-31-03	PSD Construction: minor modification
001 - 038	All emissions units	0570039-013-AV	04-06-04	12-31-04	Title V: Revision
001 - 004	Steam Generator units NOx Pollution Control Projects	0570039-014-AC	Pending		PSD Construction: minor modification
001 - 039	Most emissions units - Clarifications and deletion of redundant conditions All emissions units - Renewal	0570039-017-AV	01-01-05	12-31-09	Title V: Revision/Renewal
001 - 039	Most emission units - Clarifications and deletion of redundant conditions	0570039-016-AC	11-23-04	12-31-04	PSD Construction: minor modification
010	Solid Fuel Yard new emissions points	0570039-025-AC		10-31-06	Air Construction, minor modification
001-039	All emissions units	0570039-028-AV	11-19-07	12-31-09	Title V: Revision

APPENDIX F – Solid Fuel Yard Fugitives Emissions Points

The Big Bend Solid Fuel Yard includes ARMS Emissions Units 010, 029 and 030 with the following emissions points:

Description	Facility Emissions Point	Emissions Unit ID. No.
Barge Clamshell to Conveyor D1	FH-001	010
Barge Bucket Elevator to Conveyor A1	FH-002	010
Conveyor A1 to Conveyor B1	FH-003	010
Conveyor B1 to Conveyor D1	FH-004	010
Self-Unloading Barge to Conveyor D1	FH-005	010
Conveyor D1 to Conveyor E1	FH-006	010
Conveyor E1 to Conveyor Y or Conveyor F1	FH-007	010
Conveyor Y to Conveyor Z	FH-008a	010
Conveyor Z to West Emergency Pile	FH-008b	010
Dozer Operations on West Emergency Storage Pile	FH-009	010
West Emergency Storage Pile	FH-010	010
Dozer Reclaim from West Emergency Pile to Portable Conveyor	FH-011a	010
Conveyor Z to Conveyor P	FH-012	010
Conveyor P to Intermediate Conveyor	FH-013	010
Intermediate Conveyor to North Stacker Conveyor (G2)	FH-014	010
North Stacker Conveyor (G2) to North/Center Storage Pile	FH-015	010
Mobile Reclaimer to North Stacker Conveyor (G2)	FH-016	010
North Stacker Conveyor (G2) to Conveyor P	FH-017	010
Dozer Operations on North Storage Pile	FH-018	010
North Storage Pile	FH-019	010
Dozer Operations on Middle (Common) Storage Pile	FH-020	010
Fuel Storage - Middle (Common) Storage Pile	FH-021	010
Conveyor F1 to South Stacker Conveyor (G1)	FH-022	010
South Stacker Conveyor (G1) to South/Center Storage Pile	FH-023	010
South Reclaimer to South Reclaimer Conveyor (G1)	FH-024	010
South Reclaimer Conveyor (G1) to Conveyor F1	FH-025	010
Dozer Operations on South Storage Pile	FH-026	010
South Storage Pile	FH-027	010
Conveyor P to Conveyor J2	FH-028	010
Conveyor J2 to Conveyor Q2	FH-029	010
Conveyor F1 to Conveyor J1	FH-030	010
Conveyor J1 to Conveyor Q1	FH-031	010
Blending Bins to Conveyors T1, T2	FH-036 thru FH-047	010
Crusher to Conveyor W1	FH-050	010
Crusher to Conveyor W2	FH-051	010
Conveyor U to East Emergency Storage Pile	FH-052	010
Dozer Operations on East Emergency Storage Pile	FH-053	010
East Emergency Storage Pile	FH-054	010
Conveyor W1 to Conveyor L1	FH-055	010
Conveyor W2 to Conveyor L2	FH-056	010
Dozer Reclaim from East Emergency Pile to "K" Feeders	FH-057	010
"K" Feeders to Conveyors L1 or L2	FH-058	010
Conveyors L1 and L2 to Conveyors M1 and M2, and Conveyors M1 and M2 to Coal Bunkers	FH-059 thru FH-062	010

APPENDIX F – Solid Fuel Yard Fugitives Emissions Points

Description	Facility Emissions Point	Emissions Unit ID. No.
Dozer Operations on Storage Pile	FH-063	010
Dozer Reclaim from Storage Pile to Loadout Conveyor	FH-064	010
Loadout Conveyor to Rail Transfer Conveyor	FH-065	010
Railcar Loading	FH-066	010
Non-TEC Fuel Stockpile to Loadout Conveyor	FH-067	010
Non-TEC Fuel Truck Loading	FH-068	010
Polk Fuel Truck Loading	FH-069	010
Long Term Storage Pile	FH-070	010
Dozer Operations on Long Term Storage Pile	FH-071	010
Trucks, Full	FH-072	010
Trucks, Empty	FH-073	010
Reclaim from Petcoke Storage Pile to Trucks (PET)	FH-074a	010
Reclaim from Coal Storage Pile to Trucks (COAL)	FH-074b	010
Reclaim from Slag Storage Pile to Trucks (SLAG)	FH-074c	010
Truck Traffic (paved roads, empty trucks) (PET/COAL/SLAG)	FH-075a	010
Truck Traffic (paved roads, full trucks) (PET/COAL/SLAG)	FH-075b	010
Truck Traffic (unpaved roads, empty trucks) (PET/COAL/SLAG)	FH-076a	010
Truck Traffic (unpaved roads, full trucks) (PET/COAL/SLAG)	FH-076b	010
Conveyors Q1 and Q2 to Blending Bins	FH-032 thru FH-035	029
Conveyor T1 to Crusher #1	FH-048	030
Conveyor T2 to Crusher #2	FH-049	030

APPENDIX CAM - Compliance Assurance Monitoring Requirements

Pursuant to Rule 62-213.440(1)(b)1.a., F.A.C., the CAM plans that are included in this appendix contain the monitoring requirements necessary to satisfy 40 CFR 64. Conditions 1. – 17. are generic conditions applicable to all emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the attached tables, as submitted by the applicant and approved by the Department.

40 CFR 64.6 Approval of Monitoring.

1. The attached CAM plans, as submitted by the applicant and revised by the Department, are approved for the purposes of satisfying the requirements of 40 CFR 64.3.

[40 CFR 64.6(a)]

2. The attached CAM plans include the following information:

- (i) The indicator(s) to be monitored (such as temperature, pressure drop, emissions, or similar parameter);
- (ii) The means or device to be used to measure the indicator(s) (such as temperature measurement device, visual observation, or CEMS); and
- (iii) The performance requirements established to satisfy 40 CFR 64.3(b) or (d), as applicable.

[40 CFR 64.6(c)(1)]

3. The attached CAM plans describe the means by which the owner or operator will define an exceedance of the permitted limits or an excursion from the stated indicator ranges and averaging periods for purposes of responding to (see CAM Conditions 5. - 9.) and reporting exceedances or excursions (see CAM Conditions 10. - 14.).

[40 CFR 64.6(c)(2)]

4. The permittee is required to conduct the monitoring specified in the attached CAM plans and shall fulfill the obligations specified in the conditions below (see CAM Conditions 5. - 17.).

[40 CFR 64.6(c)(3)]

40 CFR 64.7 Operation of Approved Monitoring.

5. Commencement of operation. The owner or operator shall conduct the monitoring required under this appendix upon the effective date of this Title V permit.

[40 CFR 64.7(a)]

6. Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

[40 CFR 64.7(b)]

7. Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

[40 CFR 64.7(c)]

8. Response to excursions or exceedances.

- a. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions, if allowed by this permit). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- b. Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

[40 CFR 64.7(d)(1) & (2)]

9. Documentation of need for improved monitoring. If the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the permitting authority and, if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[40 CFR 64.7(e)]

40 CFR 64.8 Quality Improvement Plan (QIP) Requirements.

10. Based on the results of a determination made under CAM Condition 8.b a., above, the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with CAM Condition 4., an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, may require the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.

[40 CFR 64.8(a)]

11. Elements of a QIP:

- a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.
- b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:
 - (i) Improved preventive maintenance practices.
 - (ii) Process operation changes.
 - (iii) Appropriate improvements to control methods.
 - (iv) Other steps appropriate to correct control performance.
 - (v) More frequent or improved monitoring (only in conjunction with one or more steps under CAM Condition 11.b(i) through (iv), above).

[40 CFR 64.8(b)]

12. If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the permitting authority if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

[40 CFR 64.8(c)]

13. Following implementation of a QIP, upon any subsequent determination pursuant to CAM Condition 8.b., the permitting authority may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:
- Failed to address the cause of the control device performance problems; or
 - Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

[40 CFR 64.8(d)]

14. Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

[40 CFR 64.8(e)]

40 CFR 64.9 Reporting And Recordkeeping Requirements.

15. General reporting requirements.

- On and after the date specified in CAM Condition 5. by which the owner or operator must use monitoring that meets the requirements of this appendix, the owner or operator shall submit monitoring reports semi-annually to the permitting authority in accordance with Rule 62-213.440(1)(b)3.a., F.A.C.
- A report for monitoring under this part shall include, at a minimum, the information required under Rule 62-213.440(1)(b)3.a., F.A.C., and the following information, as applicable:
 - Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - A description of the actions taken to implement a QIP during the reporting period as specified in CAM Conditions 10. through 14. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

[40 CFR 64.9(a)]

16. General recordkeeping requirements.

- The owner or operator shall comply with the recordkeeping requirements specified in Rule 62-213.440(1)(b)2., F.A.C. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to CAM Conditions 10. through 14. and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
- Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

[40 CFR 64.9(b)]

40 CFR 64.10 Savings Provisions.

17. It should be noted that nothing in this appendix shall:

- Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this appendix shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require,

as part of the issuance of a permit under Title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.

- b. Restrict or abrogate the authority of the Administrator or the permitting authority to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.
- c. Restrict or abrogate the authority of the Administrator or permitting authority to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.

[40 CFR 64.10]

Emissions Units 001, 002, 003 & 004

Steam Generating Units Nos. 1-4 PM Emissions Controlled By ESPs Monitoring Approach

	Indicator No. 1
I. Indicator	Opacity.
II. Measurement Approach	The use of a 40 CFR 75 certified continuous opacity monitoring system (COMS) and data acquisition handling system (DAHS).
III. Indicator Range	An excursion is defined as any 1-hour average visible emission that exceeds maximum indicator range percent opacity, excluding periods of startup, shutdown and malfunction pursuant to Rule 62-210.700, F.A.C.
IV. Performance Criteria	
a. Data Representativeness	The COMS locations meet the specifications of 40 CFR 75 and 40 CFR 60, Appendix B.
b. Verification of Operational Status	N/A
c. QA/QC Practices and Criteria	The COMS are operated and maintained in accordance with Appendix B to Part 75, Quality Assurance and Quality Control Procedures.
d. Monitoring Frequency	Continuous
e. Data Collection Procedures	Automated data acquisition system (DAHS)
f. Averaging Period	3-hour average

Ranges for Indicator — Opacity

Emission Unit/Control Device	Indicator Range (% opacity) Maximum
Unit 1—ESP	15
Unit 2—ESP	15
Unit 3—ESP	15
Unit 4—ESP	15

Friday, Barbara

To: kashffield@tecoenergy.com; btburrows@tecoenergy.com; Zhang-Torres; lee@epchc.org; Sims, Jeff; 'Little.James@epamail.epa.gov'; Forney.Kathleen@epamail.epa.gov

Cc: Heron, Teresa

Subject: FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station

Attachments: U-1 0570039 028 p.pdf; 0570039-028FinalNotice&FD.pdf; 0570039 028 APPENDIX CAM.pdf; 0570039 028 AV Finalpermit.pdf; AMENDMENT CONSENT DECREE.pdf; Appdx-a1.pdf; Appdx-ss1.pdf; APPENDIX F - Fugitives.pdf; AppH 0570039 028 p.pdf; CONSENT FINAL JUDGMENT.pdf; figure1.pdf; Final0570039-028-AV SOB.pdf; FinalPermitSignaturePage.pdf; I-1 0570039 028 final.pdf; Table297 310-1.pdf

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Thank you,

DEP, Bureau of Air Regulation

11/21/2007

Friday, Barbara

From: System Administrator
To: Heron, Teresa; Zhang-Torres
Sent: Wednesday, November 21, 2007 10:39 AM
Subject: Delivered:FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station

Your message

To: 'kashffield@tecoenergy.com'; 'btburrows@tecoenergy.com'; Zhang-Torres; 'lee@epchc.org'; 'Sims, Jeff'; 'Little.James@epamail.epa.gov'; 'Forney.Kathleen@epamail.epa.gov'
Cc: Heron, Teresa
Subject: FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station
Sent: 11/21/2007 10:38 AM

was delivered to the following recipient(s):

Heron, Teresa on 11/21/2007 10:38 AM
Zhang-Torres on 11/21/2007 10:38 AM

Friday, Barbara

From: Mail Delivery System [MAILER-DAEMON@mseive01.rtp.epa.gov]
Sent: Wednesday, November 21, 2007 10:39 AM
To: Friday, Barbara
Subject: Successful Mail Delivery Report

Attachments: Delivery report; Message Headers



Delivery report.txt
(724 B)

Message
Headers.txt (2 KB)

This is the mail system at host mseive01.rtp.epa.gov.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<Forney.Kathleen@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250
OK, sent 47445111_10172_53578_1

<Little.James@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250
OK, sent 47445111_10172_53578_1

Friday, Barbara

From: Exchange Administrator
Sent: Wednesday, November 21, 2007 10:40 AM
To: Friday, Barbara
Subject: Delivery Status Notification (Relay)

Attachments: ATT112562.txt; FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station



ATT112562.txt (355 B) FINAL Title V Permit Revision ...

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

lee@epchc.org
SimsJ@epchc.org

Friday, Barbara

From: Forney.Kathleen@epamail.epa.gov
Sent: Wednesday, November 21, 2007 10:40 AM
To: Friday, Barbara
Cc: Little.James@epamail.epa.gov
Subject: Re: FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station

Thanks.

Have a good Thanksgiving.

Katy R. Forney
Air Permits Section
EPA - Region 4
61 Forsyth St., SW
Atlanta, GA 30024

Phone: 404-562-9130
Fax: 404-562-9019

"Friday,
Barbara"
<Barbara.Friday@
dep.state.fl.us>

11/21/2007 10:38
AM

To
<kasheffield@tecoenergy.com>,
<btburrows@tecoenergy.com>,
"Zhang-Torres"
<Cindy.Zhang-Torres@dep.state.fl.
us>, <lee@epchc.org>, "Sims,
Jeff" <SimsJ@epchc.org>, James
Little/R4/USEPA/US@EPA, Kathleen
Forney/R4/USEPA/US@EPA

cc
"Heron, Teresa"
<Teresa.Heron@dep.state.fl.us>
Subject
FINAL Title V Permit Revision
No.: 0570039-028-AV - Tampa
Electric Company - Big Bend
Station

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Thank you,
DEP, Bureau of Air Regulation

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on this link to the DEP Customer Survey. Thank you in advance for completing the survey. [attachment "U-1 0570039 028 p.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "0570039-028FinalNotice&FD.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "0570039 028 APPENDIX CAM.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "0570039 028 AV Finalpermit.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "AMENDMENT CONSENT DECREE.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "Appdx-a1.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "Appdx-ssl.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "APPENDIX F - Fugitives.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "AppH 0570039 028 p.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "CONSENT FINAL JUDGMENT.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "figure1.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "Final0570039-028-AV SOB.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "FinalPermitSignaturePage.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "I-1 0570039 028 final.pdf" deleted by Kathleen Forney/R4/USEPA/US] [attachment "Table297 310-1.pdf" deleted by Kathleen Forney/R4/USEPA/US]

Friday, Barbara

From: Byron Burrows [btburrows@tecoenergy.com]
Sent: Wednesday, November 21, 2007 11:17 AM
To: Friday, Barbara
Cc: Sharon Good
Subject: Re: FINAL Title V Permit Revision No.: 0570039-028-AV - TampaElectric Company - Big Bend Station

Received. Thanks.

From BlackBerry
Byron Burrows
Mob: 813.230.3445

-----Original Message-----

From: "Friday, Barbara" <Barbara.Friday@dep.state.fl.us>
To: Zhang-Torres <Cindy.Zhang-Torres@dep.state.fl.us>
Cc: Teresa Heron <Teresa.Heron@dep.state.fl.us>
To: <Forney.Kathleen@epamail.epa.gov>
To: <Little.James@epamail.epa.gov>
To: <lee@epchc.org>
To: Jeff Sims <SimsJ@epchc.org>
To: Karen Sheffield <kasheffield@tecoenergy.com>
To: Byron Burrows <btburrows@tecoenergy.com>

Sent: 11/21/2007 10:38:04 AM

Subject: FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station

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<http://www.adobe.com/products/acrobat/readstep.html>

<blocked::blocked::blocked::blocked::blocked::blocked::blocked::blocked::blo

ked::blocked::blocked::blocked::http://www.adobe.com/products/acrobat/readste

p.html> .

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e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

The Department of Environmental

Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and

improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of

service you received. Copy the url below to a web browser to complete the DEP

survey:

<http://survey.dep.state.fl.us/?refemail=Barbara.Friday@dep.state.fl.us>

Thank you in advance for completing the survey.

Friday, Barbara

From: Karen Sheffield [kashffield@tecoenergy.com]
Sent: Wednesday, November 21, 2007 11:36 AM
To: Friday, Barbara
Subject: Re: FINAL Title V Permit Revision No.: 0570039-028-AV - TampaElectric Company - Big Bend Station

I received the above subject information.

>>> "Friday, Barbara" <Barbara.Friday@dep.state.fl.us> 11/21/2007 10:38:04 AM >>>

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

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Thank you,

DEP, Bureau of Air Regulation

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11/21/2007

Friday, Barbara

From: Sims, Jeff [SimsJ@epchc.org]
To: Friday, Barbara
Sent: Wednesday, November 21, 2007 11:24 AM
Subject: Read: FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station

Your message

To: SimsJ@epchc.org
Subject:

was read on 11/21/2007 11:24 AM.

Friday, Barbara

From: Zhang-Torres
To: Friday, Barbara
Sent: Wednesday, November 21, 2007 1:37 PM
Subject: Read: FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station

Your message

To: 'kashffield@tecoenergy.com'; 'btburrows@tecoenergy.com'; Zhang-Torres; 'lee@epchc.org'; 'Sims, Jeff'; 'Little.James@epamail.epa.gov'; 'Forney.Kathleen@epamail.epa.gov'
Cc: Heron, Teresa
Subject: FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station
Sent: 11/21/2007 10:38 AM

was read on 11/21/2007 1:37 PM.

Friday, Barbara

From: Lee, Diana [Lee@epchc.org]
To: Friday, Barbara
Sent: Tuesday, November 27, 2007 4:26 PM
Subject: Read: FINAL Title V Permit Revision No.: 0570039-028-AV - Tampa Electric Company - Big Bend Station

Your message

To: Lee@epchc.org
Subject:

was read on 11/27/2007 4:26 PM.