



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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PERMITTEE

Tampa Electric Company (TEC)
13031 Wyandotte Road
Apollo Beach, Florida 33572-9200

Air Permit No. 0570039-075-AC
Permit Expires: Date
Minor Air Construction Permit

Authorized Representative:
Byron Burrows, P.E., Manager-Air Programs

Big Bend Generating Station
Gypsum Pelletizer Project

PROJECT

This is the final air construction permit, which authorizes the construction and compliance testing of a new 60,000 ton per day gypsum pelletizing operation, including: handling, storage, drying, pelletizing, bagging and shipping activities. The proposed work will be conducted at the existing Big Bend Generating Station, which is a coal-fired steam electric generating plant categorized under Standard Industrial Classification No. 4911. The existing facility is located in Hillsborough County at 13031 Wyandotte Road in Apollo Beach, Florida. The UTM coordinates are Zone 17, 363.15 km East and 3074.91 km North.

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

STATEMENT OF BASIS

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

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

Executed in Tallahassee, Florida.

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

JFK/jh

PERMIT

CERTIFICATE OF SERVICE

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

Mr. Byron Burrows, P.E., Manager-Air Programs, TEC: btburrows@tecoenergy.com

Mr. Robert Velasco, P.E., Senior Consulting Engineer, TEC: ravelasco@tecoenergy.com

Mr. Ronald D. Bishop, Director, TEC: rdbishop@tecoenergy.com

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Ms. Lynn Searce, DEP-OPC: lynn.searce@dep.state.fl.us

Clerk Stamp

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

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The existing facility consists of the following emissions units:

EU No.	Brief Emission Unit Description
<i>Regulated Emissions Units</i>	
<i>Fossil Fuel Fired Steam Generator Units</i>	
001	Fossil Fuel Fired Steam Generator Unit No. 1
002	Fossil Fuel Fired Steam Generator Unit No. 2
003	Fossil Fuel Fired Steam Generator Unit No. 3
004	Fossil Fuel Fired Steam Generator Unit No. 4
<i>Simple-Cycle Combustion Turbines</i>	
041	SCCT 4A with a common electric generator that it shares with SCCT 4B
042	SCCT 4B with a common electric generator that it shares with SCCT 4A
<i>Solid Fuel Yard</i>	
010	Solid Fuel Yard Fugitive Emissions
029	Fuel Blending Bin Cyclone Collectors
030	Fuel Mill Cyclone Collectors
046	Transloading and Off-site Transfer of Solid Fuels and Slag
047	Railcar Unloading and Conveying System
048	Supplemental Material Handling J3 Conveyor System
<i>Coal Bunkers with Roto-Clones</i>	
015	Unit No. 1 Coal Bunker with Roto-Clone
016	Unit No. 2 Coal Bunker with Roto-Clone
017	Unit No. 3 Coal Bunker with Roto-Clone
039	Unit No. 4 Coal Bunker with Roto-Clone
<i>Limestone Handling and Storage</i>	
012	Limestone Silo A and Baghouses (2)
013	Limestone Silo B and Baghouses (2)
023	Limestone Conveyor LB/LC and Baghouse
050	Limestone Conveyor LD/LE and Baghouse
<i>Limestone Handling for FGD System for Units 1 & 2</i>	
020	Limestone Conveyors LE/LF/LG/Silo C Belt Feeder Baghouse
021	Silo C and Baghouse
<i>Wastewater Treatment Plant</i>	
022	Lime Silo for Wastewater Treatment Plant and Baghouse
<i>Fly Ash Handling and Storage - Silo Nos. 1 - 3</i>	
008	Fly Ash Silo No. 1 and Baghouse
009	Fly Ash Silo No. 2 and Baghouse
014	Fly Ash Silo No. 3 and Baghouse

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EU No.	Brief Emission Unit Description
<i>Coal Residual Storage and Transfer from the Polk Power Station</i>	
037	Coal Residual Storage Facility
038	Coal Residual Transfer System
<i>Surface Coating Operations</i>	
032	Surface Coating of Miscellaneous Metal Parts
<i>Compression Ignition (CI) Internal Combustion Engines (ICE)</i>	
043	SCCT Black-Start Emergency Diesel Engine (1,495 HP)
044	Emergency Diesel Generator (1,194 HP)
052	Emergency Diesel Generator (349 HP)
053	Emergency Diesel Generator (197 HP)

PROPOSED PROJECT

Gypsum is a by-product created during the Flue-Gas Desulfurization process used to “scrub” SO_x from coal burning emissions. Big Bend Station currently markets its gypsum for the production of wall board as well as agricultural applications. At this time, a much larger percentage of the gypsum sold goes towards wall board production than agriculture. By pelletizing gypsum, Big Bend will see an increased marketability for the synthesized gypsum as fertilizer for agricultural applications, as well as multiple other new possibilities. The pelletizing process will be able to utilize all grades of onsite gypsum production to create a high quality, transportable product. The project will consist of a new building which will house a gypsum dumping area, a gypsum and clay binder mixing area, a pelletizer production line (pellet dryer, cooler and bagging operations), and storage areas for both bagged and bulk pellets. The project will include several baghouses for collecting gypsum dust from the various activities related to the pelletizing process primarily for recovering sellable product, but also for reducing potential emissions of particulate matter as a secondary benefit.

This project will add and/or modify the following emissions units.

ID No.	Brief Emission Unit Description
036	Existing Unregulated Gypsum Handling Activities
054	New Dust Collection Manifold Baghouse Vent Stack
055	New Dryer/Pelletizer/Cooler Baghouse Vent Stack

Note: Emissions unit 036 is an existing designation for Unregulated Emissions Units/Activities related to the existing gypsum storage and handling activities identified in the current Title V air operation permit. This project will include additional gypsum transporting, handling and storage activities that are not subject to any unit specific applicable requirements. These additional activities will be added to the existing list of Unregulated Activities in the Title V permit under EU 036 at the time that it is revised to incorporate the requirements of this air construction permit. Emissions units 054 and 055 are new emissions units which be added to the existing facility under the authority granted in this air construction permit.

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility operates units subject to the Clean Air Interstate Rule (CAIR) provisions of the CAA.
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.

SECTION 1. GENERAL INFORMATION

- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- Unit 4 was originally certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C. (Power Plant Siting Certification PA 79-12).
- The facility is identified as a major source of greenhouse gas (GHG) pollutants.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority. The permitting authority for this project is the Office of Permitting and Compliance in the Division of Air Resource Management of the Department of Environmental Protection (Department). The Office of Permitting and Compliance mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400.
2. Compliance Authority. All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Drive, Tampa, Florida 33619. Telephone: (813) 627-2600. Fax: (813) 627-2660.
3. Appendices. The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and Appendix D (Common Testing Requirements).
4. Applicable Regulations, Forms and Application Procedures. Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions. For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications. The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Construction and Expiration. The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Source Obligation.
 - (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
 - (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
[Rule 62-212.400(12), F.A.C.]
9. Application for Title V Permit. This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V air operation permit is required

SECTION 2. ADMINISTRATIVE REQUIREMENTS

for regular operation of the permitted emissions unit. The permittee shall apply for a Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

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This section of the permit addresses the following emissions units.

ID No.	Emission Unit Description
054	Gypsum Dust Collection Manifold Baghouse Vent Stack
055	Gypsum Dryer/Pelletizer/Cooler Baghouse Vent Stack

Gypsum is a by-product created during the Flue-Gas Desulfurization process used to “scrub” SO_x from coal burning emissions. Big Bend Station currently markets its gypsum for the production of wall board as well as agricultural applications. At this time, a much larger percentage of the gypsum sold goes towards wall board production than agriculture. By pelletizing gypsum, Big Bend will see an increased marketability for the synthesized gypsum as fertilizer for agricultural applications, as well as multiple other new possibilities. The pelletizing process will be able to utilize all grades of onsite gypsum production to create a high quality, transportable product. The project will consist of a new building which will house a gypsum dumping area, a gypsum and clay binder mixing area, a pelletizer production line (pellet dryer, cooler and bagging operations), and storage areas for both bagged and bulk pellets. The project will include several baghouses for collecting gypsum dust from the various activities related to the pelletizing process primarily for recovering sellable product, but also for reducing potential emissions of particulate matter as a secondary benefit.

{Permitting Note: Emission unit 054 is regulated under Rules 62-212.300 & 62-296.711(RACT), F.A.C.; and, Chapters 1-3.51 & 1-3.52, Rules of the Environmental Protection Commission of Hillsborough County (EPCHC). Emission unit 055 is regulated under Rule 62-212.300, F.A.C.; and, NSPS Subpart A (General Provisions) and Subpart UUU (Standards of Performance for Calciners and Dryers in Mineral Industries) of 40 CFR 60 adopted by reference in Rule 62-204.800(8)(d) and (8)(b)74, F.A.C., respectively.}

EQUIPMENT

- 1. Gypsum Pelletizing Operation.** The permittee is authorized to install a new gypsum pelletizing and handling operation consisting of the following: a new building which will house a gypsum dumping area, a gypsum and clay binder mixing area, a pelletizer production line (pellet dryer, cooler and bagging operations), miscellaneous transfer and drop point dust collectors connected to a common manifold, and storage areas for both bagged and bulk pellets. [Application No. 0570039-075-AC]
- 2. Dust Collection Baghouses.** Emissions units 054 and 055 shall be equipped with baghouses designed to meet an emissions rate of 0.005 grains per dry standard cubic feet of exhaust air. [Rule 62-4.070(3), F.A.C. and Application No. 0570039-075-AC]

PERFORMANCE RESTRICTIONS

- 3. Permitted Capacity.** The permittee is authorized to process 68,600 tons per year of wet gypsum and clay binder material in order to produce 47,800 tons per year of dried gypsum pellets. [Rule 62-210.200(PTE), F.A.C. and Application No. 0570039-075-AC]
- 4. Authorized Fuel.** The 12 MMBtu/hr burner assembly used to provide heated air to the fluidized bed pellet dryer shall only be fired with natural gas. [Rule 62-210.200(PTE), F.A.C. and Application No. 0570039-075-AC]
- 5. Unrestricted Operation.** The hours of operation are not limited. [Rule 62-210.200(PTE), F.A.C. and Application No. 0570039-075-AC]
- 6. Reasonable Precautions to Prevent Emissions of Unconfined Particulate Matter.** Reasonable precautions to prevent emissions of unconfined particulate matter shall be employed for all activities related to the handling and transporting of gypsum as necessary, including but not limited to: the watering of roads and storage piles, covering dump trucks during transit, the use of water spray bars across the door openings to the gypsum processing building, proper maintenance of the dust collectors at transfer points within the building to

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minimize fugitive dust in the work area, filters on the building ventilation exhaust to reduce emissions of entrained dust from the work area, etc. [Rule 62-296.320(4)(c), F.A.C.]

EMISSIONS STANDARDS

- 7. **EU 054 Emissions Standards.** Emissions from the Gypsum Dust Collection Manifold Baghouse Vent Stack shall comply with the following emissions standards:
 - a. *Particulate Matter (PM).* As demonstrated by compliance testing, PM emissions shall not exceed 0.010 grains per dry standard cubic feet (gr/dscf). (Note: this limit is more restrictive than the RACT limit of 0.03 gr/dscf and was requested by the applicant in order to escape PSD applicability.) [Rules 62-4.070(3) & 62-296.711(2)(b), F.A.C.; Chapter 1-3.51, ECPCH; and, Application No. 0570039-075-AC]
 - b. *Visible Emissions (VE).* As demonstrated by compliance testing, visible emissions shall be less than 5% opacity. [Rule 62-296.711(2)(a), F.A.C. and Chapter 1-3.52, Rules of the Environmental Protection Commission of Hillsborough County (EPCHC).]
- 8. **EU 055 Emissions Standards.** Emissions from the Gypsum Dryer/Pelletizer/Cooler Baghouse Vent Stack shall comply with the following emissions standards: [Link to 40 CFR 60, Subpart UUU](#)
 - a. *Particulate Matter (PM).* As demonstrated by compliance testing, PM emissions shall not exceed 0.010 grains per dry standard cubic feet. (Note: this limit is more restrictive than the NSPS Subpart UUU limit of 0.057 grains per dry standard cubic meter (g/dscm) (0.025 gr/dscf) and was requested by the applicant in order to escape PSD applicability.) [Rule 62-4.070(3), F.A.C.; 40 CFR 60.732(a); and, Application No. 0570039-075-AC]
 - b. *Visible Emissions (VE).* As demonstrated by a Continuous Opacity Monitor, visible emissions shall be less than 10% opacity. [40 CFR 60.732(b)]

TESTING REQUIREMENTS

- 9. **Test Methods.** Required tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit and shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. [Link to 40 CFR 60, Appendices](#) No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800 & 62-297.310, F.A.C.; and, Appendix A of 40 CFR 60]

- 10. **Initial Compliance Tests.** Emissions units 054 and 055 shall be tested to demonstrate initial compliance with the emissions standards for particulate matter and visible emissions. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the units. [Rule 62-297.310(7)(a)1., F.A.C. and 40 CFR 60.736 (EU 055)]
- 11. **Annual Compliance Tests.** During each federal fiscal year (October 1st to September 30th), emissions units 054 and 055 shall be tested to demonstrate compliance with the emissions standards for particulate matter and visible emissions. [Rule 62-297.310(7)(a)4, F.A.C.]
- 12. **Future Compliance Tests Prior to Renewal of Title V Air Operation Permit.** Following completion of the five years of PSD applicability reporting requirements contained in Specific Condition **20.**, below, the particulate

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matter compliance testing frequency may be reduced to once every five years prior to obtaining a renewed Title V air operation permit. [Rules 62-212.300(1)(e) & 62-297.310(7)(a)3, F.A.C.]

13. Additional Particulate Matter Test Requirements for EU 055. Method 5 shall be used to determine the particulate matter concentration. The sampling time and volume for each test run shall be at least 2 hours and 1.70 dscm. [40 CFR 60.736(b)(1)]
14. Additional Visible Emissions Test Requirements for EU 055. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity from stack emissions. Submission of COMS data in lieu of Method 9 visible emissions tests is acceptable provided the requirements of Specific Condition 15. are met (especially 15.c.). [40 CFR 60.11 and 60.736(b)(2)] [Link to 40 CFR 60.11](#)

MONITORING REQUIREMENTS

15. Continuous Opacity Monitoring Requirement for EU 055. Because the fluidized bed gypsum dryer uses a dry control device (baghouse) to comply with the mass emission standard in Specific Condition 8.b., the permittee shall install, calibrate, maintain, and operate a continuous monitoring system to measure and record the opacity of emissions discharged into the atmosphere from the control device. The COMS shall be installed, maintained and operated in accordance with the following requirements:
 - a. *Applicable COMS Requirements.* The COMS is subject to the provisions of 40 CFR 60.13 and to the performance specifications for continuous monitoring systems under Appendix B to 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, Appendix F to 40 CFR 60.
 - b. *Installation and Operational Requirements.* The COMS shall be installed and operational prior to conducting the initial performance test. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device.
 - c. *Requirements for COMS for Continuous Compliance.* If TEC elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under 40 CFR 60.11(e)(5), they shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, Appendix B, of 40 CFR 60 before the performance test is conducted. Otherwise, TEC shall conduct a performance evaluation of the COMS during any required performance test 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 required performance test and as described in §60.11(e)(5) shall furnish the compliance authority two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in paragraph c., above, at least 10 days before the required performance test is conducted.
 - (2) Except as provided in paragraph c.(1), the owner or operator of an affected facility shall furnish the compliance authority within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.
 - d. *Calibration Requirements.*
 - (1) TEC must check the zero and upscale (span) calibration drifts at least once daily. For a particular COMS, the acceptable range of zero and upscale calibration materials is defined in the applicable version of PS-1 in Appendix B of 40 CFR 60. The optical surfaces, exposed to the effluent gases, must be cleaned before performing the zero and upscale drift adjustments, except for systems using automatic zero adjustments. The optical surfaces must be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.

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- (2) Unless otherwise approved by the Administrator, the following procedures must be followed for a COMS. Minimum procedures must include an automated method for producing a simulated zero opacity condition and an upscale opacity condition using a certified neutral density filter or other related technique to produce a known obstruction of the light beam. Such procedures must provide a system check of all active analyzer internal optics with power or curvature, all active electronic circuitry including the light source and photo detector assembly, and electronic or electro-mechanical systems and hardware and or software used during normal measurement operation.
- e. *Minimum Frequency of Operation.* Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under paragraph d., all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:
- (1) All continuous monitoring systems referenced by paragraph (c) of this section 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 paragraph (c) of this section 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.
- f. *Performance Specifications.* All continuous monitoring systems 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 this part shall be used.
- g. *Data Reduction.* Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period.
- [40 CFR 60.734(a) and 40 CFR 60.13(a), (b), (c), (d), (e), (f) & (h)] [Link to 40 CFR 60.13](#)

- 16. Mercury Monitoring.** The permittee shall sample the mercury in the wet gypsum entering the gypsum processing building and the mercury in the dried pellets within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the units. These samples shall be repeated on a monthly basis, thereafter. Reports shall be submitted as required by Specific Condition **19**. [Rule 62-4.070(3), F.A.C.]

RECORDS AND REPORTS

- 17. Test Notification Requirements.** The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9, F.A.C.]
- 18. Test Reports.** The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(8), F.A.C.]
- 19. Mercury Sample Reports.** Using the mercury sampling results required in Specific Condition **16**., the permittee shall submit a report detailing the mercury content of the wet gypsum and of the dried pellets within 45 days of obtaining the monthly samples. 100% of the difference between these sampled concentrations shall be assumed to have been emitted to the atmosphere. If a minimum of six sample reports confirm that only negligible amounts of mercury are emitted to the atmosphere from this activity, TEC may request that these sampling and reporting requirements be terminated, but may only discontinue them upon written concurrence from the Department. [Rule 62-4.070(3), F.A.C.]
- 20. Actual Emissions Reporting.** This permit is based on an analysis that compared baseline actual emissions with projected actual emissions and avoided the requirements of subsection 62-212.400(4) through (12), F.A.C. for several pollutants. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the permittee is subject to the following monitoring, reporting and recordkeeping provisions.

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- a. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five years following resumption of regular operations after the change (commencing with the first full year following the year in which the new units begin operation). Emissions shall be computed in accordance with the provisions in Rule 62-210.370, F.A.C., which are provided in Appendix C of this permit.
- b. The permittee shall report to the Department within 60 days after the end of each calendar year during the five-year period setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
 - (1) The name, address and telephone number of the owner or operator of the major stationary source;
 - (2) The annual emissions calculations pursuant to the provisions of 62-210.370, F.A.C., which are provided in Appendix C of this permit;
 - (3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and
 - (4) Any other information that the owner or operator wishes to include in the report.
- c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1 and 2, F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.

For this project, the permit requires the annual reporting of actual *particulate matter* emissions for the following units: *EU 054 – Gypsum Dust Collection Manifold Baghouse Vent Stack and EU 055 – Gypsum Dryer/Pelletizer/Cooler Baghouse Vent Stack*. [Rules 62-212.300(1)(e) & 62-210.370, F.A.C.; and, Application No. 0570039-075-AC]

21. Semi-Annual Reports. The owner or operator shall submit written reports semiannually of exceedances of control device operating parameters required to be monitored by 40 CFR 60.734 (see Specific Condition 15). For the purpose of these reports, exceedances are defined as follows: All 6-minute periods during which the average opacity from dry control devices is greater than 10 percent. [40 CFR 60.735(c)]
22. Production Records. The permittee shall keep and maintain records to document on an annual basis the hours of operation, the amount of wet gypsum processed, the amount of clay binder material used and the amount of dried pellets produced. This information shall be included in the Annual Operating Report and shall be maintained on site for a minimum of five years. [Rules 62-4.070(3) & 62-210.370(3), F.A.C.]