west virginia department of environmental protection

Division of Air Quality
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Charleston, WV 25304
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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

September 1, 2015

CERTIFIED MAIL
91 7199 9991 7033 2721 4456

David Wickline, Plant Manager
Appalachian Power - Amos Plant
PO Box 4000
St. Albans, WV 25177

Re: Appalachian Power Company
John E. Amos Plant
Permit No. R13-2663E
Plant ID No. 079-00006

Dear Mr. Wickline:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit R13-2663E is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

In accordance with 45CSR30- Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1218.

Sincerely,

Steven R. Pursley, PE
Engineer

Enclosures
c: GJ Wooten
AEP Air Quality Services Sectioin

West Virginia Department of Environmental Protection
Division of Air Quality

Earl Ray Tomblin
Governor

Randy C. Huffman
Cabinet Secretary

Permit to Modify

R13-2663E

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Issued to:

Appalachian Power Company
John E. Amos Plant
079-00006

William F. Durham
Director

Issued: September 1, 2015

This permit will supercede and replace Permit R13-2663D.

Facility Location:	Saint Albans, Putnam County, West Virginia
Mailing Address:	P.O. Box 4000 State Route 817 Saint Albans, WV 25177
Facility Description:	Electrical Power Generator
SIC Codes:	4911
UTM Coordinates:	428.2 km Easting • 4,258.4 km Northing • Zone 17
Permit Type:	Modification
Description of Change:	Voluntary heat input capacity limit on the two auxiliary boiler in order to meet the definition of "Limited Use" boiler per 40 CFR 63 Subpart DDDDD

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

The source is subject to 45CSR30. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit. Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

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1.0 Emission Units

Emission Point ID	Emission Unit ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
4E	1S	Limestone Material Handling	2006/2007	1500 TPH	None
5E	2S	Limestone Mineral Processing	2006/2007	500 TPH	None
6E	2S	Limestone Mineral Processing	2006/2007	500 TPH	Fabric Filter
7E	2S	Limestone Mineral Processing	2006/2007	500 TPH	Fabric Filter
8E	2S	Limestone Mineral Processing	2006/2007	500 TPH	Fabric Filter
9E	3S	Gypsum Material Handling	2006/2007	300 TPH	None
10E	4S	Dry Sorbent Material Handling	2006/2007	50 TPH	None
11E	4S	Dry Sorbent Material Handling	2006/2007	50TPH	Fabric Filter
12E	4S	Dry Sorbent Material Handling	2006/2007	50 TPH	Fabric Filter
13E	5S	MgOH Material Handling	2006/2007	8000 gal/hr	None
14E	6S	Wastewater Treatment Handling	2006/2007	80 TPH	None
15E	6S	Wastewater Treatment Handling	2006/2007	50 TPH	Fabric Filter
3E	ME-1	Mechanical Extractor 1	2009	NA	Filter Separator
3E	ME-2	Mechanical Extractor 2	2009	NA	Filter Separator
3E	ME-3	Mechanical Extractor 3	2009	NA	Filter Separator
3E	ME-4	Mechanical Extractor 4	2009	NA	Filter Separator
3E	ME-5	Mechanical Extractor 5	2009	NA	Filter Separator
EP-1	FAS-5	Unit 3 Fly Ash Silo A	2009	1600 tons	Bin Vent Filter
EP-2	FAS-6	Unit 3 Fly Ash Silo B	2009	1600 tons	Bin Vent Filter
EP-5	FC-A31	Fluidized Conveyor A31 TP	2009	360 tph	Vent Filter
EP-10	FC-A32	Fluidized Conveyor A32 TP	2009	360 tph	Vent Filter
EP-8	FC-B31	Fluidized Conveyor B31 TP	2009	360 tph	Vent Filter
EP-11	FC-B32	Fluidized Conveyor B32 TP	2009	360 tph	Vent Filter
F-1	WFA-3A1	Pin/Paddle Mixer A31 TP	2009	450 tph	N
F-2	WFA-3A2	Pin/Paddle Mixer A32 TP	2009	450 tph	N
F-3	WFA-3B1	Pin/Paddle Mixer B31 TP	2009	450 tph	N
F-4	WFA-3B2	Pin/Paddle Mixer B32 TP	2009	450 tph	N
Aux AM1	Aux 1	Auxiliary Boiler	1971	642 mmbtu/hr	N
Aux AM3	Aux 3	Auxiliary Boiler	1971	600 mmbtu/hr	N

2.0. General Conditions

2.1. Definitions

2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.

2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.

2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45 CSR § 30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.2. Acronyms

CAAA	Clean Air Act Amendments
CBI	Confidential Business Information
CEM	Continuous Emission Monitor
CES	Certified Emission Statement
C.F.R. *or* CFR	Code of Federal Regulations
CO	Carbon Monoxide
C.S.R. *or* CSR	Codes of State Rules
DAQ	Division of Air Quality
DEP	Department of Environmental Protection
dscm	Dry Standard Cubic Meter
FOIA	Freedom of Information Act
HAP	Hazardous Air Pollutant
HON	Hazardous Organic NESHAP
HP	Horsepower
lbs/hr	Pounds per Hour
LDAR	Leak Detection and Repair
M	Thousand
MACT	Maximum Achievable Control Technology
MDHI	Maximum Design Heat Input
MM	Million
MMBtu/hr *or* mmbtu/hr	Million British Thermal Units per Hour
MMCF/hr *or* mmcf/hr	Million Cubic Feet per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAPS	National Emissions Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
$PM_{2.5}$	Particulate Matter less than 2.5μm in diameter
PM_{10}	Particulate Matter less than 10μm in diameter
Ppb	Pounds per Batch
pph	Pounds per Hour
ppm	Parts per Million
Ppmv or ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration
psi	Pounds per Square Inch
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
TPY	Tons per Year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate
USEPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator
VEE	Visual Emissions Evaluation
VOC	Volatile Organic Compounds
VOL	Volatile Organic Liquids

2.3. Authority

This permit is issued in accordance with West Virginia Air Pollution Control Law W.Va. Code §§22-5-1 et seq. and the following Legislative Rules promulgated thereunder:

2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation;*

2.4. Term and Renewal

2.4.1. This permit supercedes and replaces previously issued Permit R13-2663B. This permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any applicable legislative rule.

2.5. Duty to Comply

2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-2663, R13-2663A, R13-2663B, R13-2663C, R13-2663D, R13-2663E and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;
[45CSR§§13-5.11 and 13-10.3]

2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;

2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;

2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses and/or approvals from other agencies; i.e., local, state and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

2.8. Administrative Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-4]

2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-5.4.]

2.10. Major Permit Modification

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.
[45CSR§13-5.1]

2.11. Inspection and Entry

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

2.12. Emergency

2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission

limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are not met.

2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and,

d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

2.12.5. The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

2.15. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. **[45CSR§13-10.1]**

2.18. Notification Requirements

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40CFR§61.145(b) and 45CSR§34]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1 State-Enforceable only.]

3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5.]

3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45 C.S.R. 11.
[45CSR§11-5.2.]

3.2. Monitoring Requirements

[Reserved]

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit

and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

d. The permittee shall submit a report of the results of the stack test within sixty (60) days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1.; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:

1. The permit or rule evaluated, with the citation number and language;
2. The result of the test for each permit or rule condition; and,
3. A statement of compliance or noncompliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

3.4. Recordkeeping Requirements

3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§4. *State-Enforceable only.*]

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304-2345

If to the USEPA:

Associate Director
Office of Air Enforcement and Compliance
Assistance (3AP20)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. **Operating Fee.**

3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4 .1 .1. Emissions from the baghouses covered by this permit shall not exceed the following:

Source	PM		PM_{10}	
	lb/hr	tpy	lb/hr	tpy
Limestone Processing System				
Baghouses	0.33	0.37	0.16	0.18
Dry SO_3 Sorbent Handling System				
Baghouses	0.19	0.02	0.09	0.01
Wastewater Treatment Handling System				
Baghouse	0.01	0.01	0.04	0.01

4 .1 .2. The amount of limestone unloaded from barges (conveyor LS1) shall not exceed 1,500 tons per hour nor 1,125,000 tons per year based on a 12 month rolling total. For the purposes of this permit a 12 month rolling total means the sum of material throughput at the end of any given month for the previous 12 months.

4 .1 .3. The amount of limestone processed at the facility (conveyors LS2-A and LS2-B combined) shall not exceed 1000 tons per hour nor 1,125,000 tons per year based on a 12 month rolling total.

4 .1 .4. The amount of gypsum trucked to the landfill shall not exceed 600 tons per hour nor 1,750,000 tons per year based on a 12 month rolling total.

4 .1 .5. The amount of magnesium hydroxide used at the facility shall not exceed 22,703,000 gallons per year based on a 12 month rolling total.

4 .1 .6. The amount of Dry SO_3 sorbent used at the facility shall not exceed 96,200 tons per year based on a 12 month rolling total if Trona is used.

4 .1 .7. The amount of Dry SO_3 sorbent used at the facility shall not exceed 62,400 tons per year based on a 12 month rolling total if hydrated lime is used.

4 .1 .8. The amount of hydrated lime delivered to the facility for use in wastewater treatment shall not exceed 6,840 tons per year based on a 12 month rolling total.

4 .1 .9. The permittee shall maintain a water truck on site and in good operating condition, and shall utilize same to apply water as often as is necessary in order to minimize the atmospheric entrainment of fugitive particulate emissions that may be generated from haulroads and other work areas where mobile equipment is used. The spraybar shall be equipped with spray nozzles, of sufficient size and number, so as to provide adequate coverage to the area being treated.

The pump delivering the water shall be of sufficient size and capacity so as to be capable of delivering to the spray nozzle(s) an adequate quantity of water and at a sufficient pressure, so as to assure that the treatment process will minimize the atmospheric entrainment of fugitive particulate emissions generated from the haulroads and work areas where mobile equipment is used.

Additionally, at least twice per year the permittee shall apply a mixture of water and an environmentally acceptable dust control additive hereafter referred to as solution to all unpaved haul roads. The solution shall have a concentration of dust control additive sufficient to minimize the atmospheric entrainment of fugitive particulate emissions that may be generated from haulroads.

For paved haulroads, the use of a wet road sweeper is an acceptable alternative to a water truck as long as it is operated in such a manner as to assure minimization of the atmospheric entrainment of fugitive particulate emissions.
[45CSR§2-5.1.]

4.1.10. The maximum amount of fly ash handled by the Unit 3 fly ash handling system shall not exceed 600,000 tons (dry weight) per year (actual weight 690,000-780,000 tons per year based on 15%-30% moisture). Compliance with the throughput limit shall be determined using a rolling yearly total. A rolling yearly total shall mean the sum of the fly ash transferred for the previous twelve consecutive calendar months.

4.1.11. A regular fugitive fly ash emissions inspection program shall be implemented and properly documented. The permittee shall, at a minimum, inspect all fly ash fugitive dust control systems weekly to ensure that they are operated as necessary and maintained in good working order. The inspection program shall include provisions to document any observed accumulations of fly ash on or around facility control equipment and proximate areas. The inspections shall be documented and maintained on site for a minimum of five years.
[Consent Order CO-R2-E-2005-2 §III.2]

4.1.12. Fugitive fly ash accumulations identified on or around all fugitive dust control systems per permit condition 4.1.11. above, shall be removed and properly disposed of as soon as reasonably and safely possible. Removal techniques may include, but are not limited to, the use of vacuum trucks, hand removal, or any other method so deemed suitable by the permittee.
[[45CSR§2-5.1 and Consent Order CO-R2-E-2005-2 §III.3]

4.1.13. Emissions from the facility (transfer of the fly ash by truck) shall not exceed the following:

	PM		PM_{10}	
	lb/hr	tpy	lb/hr	tpy
Emissions from 3E	0.97	4.23	0.97	4.23
EP-1	0.24	1.04	0.24	1.04
EP-2	0.24	1.04	0.24	1.04
EP-5	0.01	0.06	0.01	0.06
EP-8	0.01	0.06	0.01	0.06

Trucking Fugitives*	35.72	15.01	10.24	4.33
Total	**37.19**	**21.44**	**11.71**	**10.76**

4.1.14. The fly ash from units 1, 2, and 3 shall be conditioned such that the minimum moisture content of the ash shall be no less than 15% by wt. prior to being loaded into trucks. **[45CSR§2-5.1.]**

4.1.15 The permittee shall operate the dry sorbent injection system as necessary to minimize the appearance of a trailing SO_3 plume, consistent with the technological capabilities of the system and good operation and maintenance practices..

4.1.16 In the event that a trailing plume is observed, the following actions shall be taken:

4.1.16.1 Review unit process and/or equipment data to verify that the plume is an SO_3 plume.

4.1.16.2 Verify sufficient dry sorbent injection flow.

4.1.16.3 Investigate for potential dry sorbent nozzle pluggage.

4.1.16.4 Increase injection rate, consistent with the technological capabilities and limitations of the system and with good operations and maintenance practices.

4.1.16.5 If system conditions allow, reducing unit load may be considered.

4.1.17 Maximum emissions to the atmosphere from Auxiliary Boiler #1 (AUX 1) shall not exceed the following limits:

Limits applicable before January 31, 2016:

Pollutant	Hourly Emissions (lb/hr)	Annual Emissions (ton/year)
Nitrogen Oxides	128.40	562.4
Sulfur Dioxide	379.85	1,663.74
Carbon Monoxide	26.75	117.17
PM	10.70	46.87
PM_{10}	5.35	23.43
Volatile Organic Compounds	1.07	4.69

Limits applicable beginning January 31, 2016:

Pollutant	Hourly Emissions (lb/hr)	Annual Emissions (ton/year)
Nitrogen Oxides	128.40	56.24
Sulfur Dioxide	379.85	166.37
Carbon Monoxide	26.75	11.72
PM	10.70	4.69
PM_{10}	5.35	2.34
Volatile Organic Compounds	1.07	0.47

4.1.18 Maximum emissions to the atmosphere from Auxiliary Boiler #3 (AUX 3) shall not exceed the following limits:

Limits applicable before January 31, 2016:

Pollutant	Hourly Emissions (lb/hr)	Annual Emissions (ton/year)
Nitrogen Oxides	120.00	525.60
Sulfur Dioxide	355.00	1,554.90
Carbon Monoxide	25.00	109.50
PM	10.00	43.80
PM_{10}	5.00	21.90
Volatile Organic Compounds	1.00	4.38

Limits applicable beginning January 31, 2016:

Pollutant	Hourly Emissions (lb/hr)	Annual Emissions (ton/year)
Nitrogen Oxides	120.00	52.56
Sulfur Dioxide	355.00	155.49
Carbon Monoxide	25.00	10.95
PM	10.00	4.38
PM_{10}	5.00	2.19
Volatile Organic Compounds	1.00	0.44

4.1.19 Maximum fuel feed rate to Auxiliary Boiler 1 (AUX 1) shall not exceed 128,400 gallons of fuel oil per day. The percent sulfur of the fuel oil shall not exceed 0.5%.

4.1.19.1 Beginning January 31, 2016, the annual heat input to Auxiliary Boiler 1 (AUX 1) shall not exceed 562,392 mmbtu/year.

4.1.20 Maximum fuel feed rate to Auxiliary Boiler 3 (AUX 3) shall not exceed 120,000 gallons of fuel oil per day. The percent sulfur of the fuel oil shall not exceed 0.5%.

4.1.20.1 Beginning January 31, 2016, the annual heat input to Auxiliary Boiler 3 (AUX 3) shall not exceed 525,600 mmbtu/year.

4.1.21 Auxiliary boilers AUX 1 and AUX 3 shall comply with all applicable requirements of 40 CFR 63 Subpart DDDDD no later than January 31, 2016.
[40 CFR §63.7495(b)]

4.1.22 The permittee shall complete an initial tune up of auxiliary boilers AUX 1and AUX 3 by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in §63.7495.
[40 CFR §63.7510(e)]

4.1.23 The permittee shall complete a tune-up of auxiliary boilers AUX 1 and AUX 3every 5 years as specified in paragraphs (a)(10)(i) through (vi) of 40 C.F.R. §7540 to demonstrate continuous compliance.
[40 CFR §63.7540(a)(12)]

4.1.24 **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
[45CSR§13-5.11.]

4.2. Monitoring Requirements

4.2. 1. For the purposes of determining compliance with condition 4.1.2 of this permit, the permittee shall maintain monthly records of the amount of limestone unloaded from barges.

4.2. 2. For the purposes of determining compliance with condition 4.1.3 of this permit, the permittee shall maintain monthly records of the amount of limestone processed at the facility.

4.2. 3. For the purposes of determining compliance with condition 4.1.4 of this permit, the permittee shall maintain monthly records of the amount of gypsum trucked to the landfill. At the permittee's discretion the permittee may use records from belt scales located on belts G2 and G1B as a surrogate for records of actual material trucked to the landfill.

4.2. 4. For the purposes of determining compliance with condition 4.1.5 of this permit, the permittee shall maintain monthly records of the amount of magnesium hydroxide used at the facility.

4.2. 5. For the purposes of determining compliance with condition 4.1.6 of this permit, the permittee shall maintain monthly records of the amount of Trona used as dry SO_3 sorbent at the facility.

4.2. 6. For the purposes of determining compliance with condition 4.1.7 of this permit, the permittee shall maintain monthly records of the amount of hydrated lime used at the facility as dry SO_3 Sorbent.

4.2. 7. For the purposes of determining compliance with condition 4.1.8 of this permit, the permittee shall maintain monthly records of the amount of hydrated lime used at the facility for wastewater treatment.

4.2. 8. For the purposes of determining compliance with condition 4.1.9 of this permit, the permittee shall maintain records of the amount of dust control additive used at the facility and the dates the solution was applied.

4.2. 9. For the purposes of determining compliance with the maximum throughput limit set forth in condition 4.1.10 above, the facility shall maintain monthly (and calculated rolling yearly total) records of the amount of fly ash handled by the Unit 3 fly ash system.

4.2. 10. Each stack plume shall be visually observed (downstream of the moisture plume), at a minimum of, once per daylight shift.

4.2. 11. To determine compliance with requirement 4.1.17, 4.1.18, 4.1.19 and 4.1.20, the permittee shall monitor and maintain records of the maximum fuel feed rate to Auxiliary Boiler 1 (AUX 1) and Auxiliary Boiler 3 (AUX 3) and sulfur content of the fuel oil. In addition, to determine compliance with 4.1.19.1 and 4.1.20.1, the permittee shall maintain records of the monthly fuel feed rate and fuel heat content. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request. Compliance with the annual limits in conditions 4.1.17, 4.1.18, 4.1.19.1 and 4.1.20.1 shall be based on a rolling yearly total.

4.3. Testing Requirements

[Reserved]

4.4. Recordkeeping Requirements

4.4.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

4.4.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

4.4.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.

b. Steps taken to minimize emissions during the event.

c. The duration of the event.

d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

e. The cause of the malfunction.

f. Steps taken to correct the malfunction.

g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

4.4.4. The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures applied at the facility. The permittee shall inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly (except for flyash, see permit condition 4.1.13) from October 1 through April 30, to ensure that they are operated as necessary and maintained in good working order. The permittee shall maintain records of all scheduled and non-scheduled maintenance and shall state any maintenance or corrective actions taken as a result of the weekly and/or monthly inspections, the times the fugitive dust control system(s) were inoperable and any corrective actions taken.
[Consent Order CO-R2-E-2005-2 §III.4]

4.4.5. The permittee shall properly document any fugitive fly ash emissions not being minimized as discovered through the implementation of condition 4.1.13 of this permit, and repair such problems as soon as reasonably and safely possible. The permittee at a minimum shall maintain records of all scheduled and non-scheduled maintenance or corrective actions taken as a result of the weekly inspections, the times the fugitive dust control systems were inoperable, and any corrective actions taken. The existing facility work order system database is acceptable for demonstrating proper documentation and repair of such discoveries. The company shall make a good faith effort to notify DAQ as necessary regarding fugitive emission minimization concerns. Additional documentation of corrective actions taken shall be provided by the permittee to DAQ upon the request of the Director.

4.4.6. All records documenting the monitoring of compliance as required in the conditions in 4.2. and 4.3. of this permit shall be maintained in accordance with Condition 3.4.1. of this permit.

4.4.7 A record shall be kept of the date, time and personnel completing the visual inspection of the plume monitoring required by condition 4.2.10 of this permit. The record should also include a description of the plume and any actions taken. The record may include the inability of the visual inspector to observe a plume due to atmospheric conditions.

4.4.8 In order to determine compliance with 4.2.11, the permittee shall maintain records of the monthly fuel feed rate and fuel heat content.

4.4.9 You must keep records according to paragraphs (1) and (2) of this condition.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii).

[40 CFR §63.7555(a)]

4.4.10 You must maintain records of the calendar date, time, occurrence and duration of each startup and shutdown.
[40 CFR §63.7555(i)]

4.4.11 You must maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown.
[40 CFR §63.7555(j)]

4.4.12 All records required to comply with 40 CFR 63 Subpart DDDDD shall be kept in the following form:

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.

[40 CFR §63.7560]

4.4.13 For each unit that meets the definition of limited-use boiler or process heater, you must keep fuel use records for the days the boiler or process heater was operating.
[40 CFR §63.7525(k)]

4.5. Reporting Requirements

4.5.1 Records of plume observations should be maintained on site and made available to the Director or his authorized representative for inspection upon request.

CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached _____, representing the period beginning _____ and ending _____, and any supporting documents appended hereto, is true, accurate, and complete.

Signature[1] _____ _____
(please use blue ink) Responsible Official or Authorized Representative Date

Name and Title _____ _____
(please print or type) Name Title

Telephone No. _____ Fax No. _____

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[1] This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

   (I) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars), or

   (ii) the delegation of authority to such representative is approved in advance by the Director;

b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;

c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of USEPA); or

d. The designated representative delegated with such authority and approved in advance by the Director.