west virginia department of environmental protection

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PERMIT TO CONSTRUCT
AN ELECTRICAL POWER GENERATION FACILITY

IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL LAW (W. Va. Code §§22-5-1 et seq.), AND REGULATIONS PROMULGATED THEREUNDER, THE FOLLOWING PERMITTEE IS AUTHORIZED TO CONSTRUCT, SUBJECT TO THE TERMS AND CONDITIONS OF THIS PERMIT, THE SOURCE DESCRIBED BELOW.

This permit supercedes and replaces R14-0024A issued on July 10, 2007.

Name of Permittee:	Longview Power, LLC
Name of Facility:	Longview Power
Permit No.:	R14-0024B
Plant ID No.:	061-00134
Effective Date of Permit:	DRAFT
Permit Writer:	Edward Andrews
Facility Mailing Address:	306 Dents Run Road Morgantown, WV 26501
County:	Monongalia
Nearest City or Town:	Maidsville - Cass District
UTM Coordinates:	Easting: 589.2 km Northing: 4,395.7 km Zone: 17
Directions to Exact Location:	From Morgantown, WV Route 19 west to Route 100 North to Route 53. Proceed 5.3 miles. Turn left onto Route 53/2. Access to facility is on the right.
Type of Facility or Modification:	Construction of a 6,114 MMBtu/hr pulverized coal-fired boiler, which is capable of generating 695MW of electricity.

THE SOURCE IS SUBJECT TO 45CSR30. THE TITLE V (45CSR30) APPLICATION WILL BE DUE WITHIN TWELVE (12) MONTHS AFTER THE DATE OF THE COMMENCEMENT OF THE OPERATION OR ACTIVITY (ACTIVITIES) AUTHORIZED BY THIS PERMIT, UNLESS GRANTED A DEFERRAL OR EXEMPTION BY THE SECRETARY FROM SUCH FILING DEADLINE PURSUANT TO A WRITTEN REQUEST FROM THE PERMITTEE.

IN ACCORDANCE WITH THE PERMIT APPLICATION AND ITS AMENDMENTS, THIS PERMIT IS LIMITED AS FOLLOWS:

A. SPECIFIC REQUIREMENTS

1. The following conditions and requirements are specific to the PC Boiler (ID #SB1):

   a. The hourly heat input of the PC Boiler shall not exceed 6,114 million British Thermal Units (MMBtu) per hour.

   b. The annual heat input of the PC Boiler shall not exceed 53,558,640 MMBtu per rolling 12-month total.

2. Emissions of nitrogen oxides (NO_x) shall be controlled with the use of low NO_x burners and selective catalytic reduction control technologies. NO_x emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 489 lb/hr (0.08 lb/MMBtu) based on a 24-hour rolling average.

   a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and 40 CFR 60.8.

   b. Continuous compliance with this emission limit shall be determined by Continuous Emission Monitors (CEMs) data. The permittee shall install, calibrate, operate and maintain CEMs, in accordance with the requirements of 40 CFR 60.13 and 40 CFR 75 for NO_x from the PC Boiler.

3. Emissions of nitrogen oxides (NO_x) shall be controlled with the use of low NO_x burners and selective catalytic reduction control technologies. NO_x emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 428 lb/hr (0.07 lb/MMBtu) based on a 30-day rolling average.

   a. Continuous compliance with this emission limit shall be determined by Continuous Emission Monitors (CEMs) data. The permittee shall install, calibrate, operate and maintain CEMs, in accordance with the requirements of 40 CFR 60.13 and 40 CFR 75 for NO_x from the PC Boiler.

4. Emissions of nitrogen oxides (NO_x) shall be controlled with the use of low NO_x burners and selective catalytic reduction control technologies. NO_x emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 397 lb/hr (0.065 lb/MMBtu) based on a calendar year.

a. Continuous compliance with this emission limit shall be determined by Continuous Emission Monitors (CEMs) data. The permittee shall install, calibrate, operate and maintain CEMs, in accordance with the requirements of 40 CFR 60.13 and 40 CFR 75 for NO_x from the PC Boiler.

5. Emissions of sulfur dioxides (SO_2) shall be controlled with the use of a wet flue gas desulfurization control technology. SO_2 emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 917 lb/hr (0.15lb/MMBtu) based on a three-hour rolling average.

   a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and 40 CFR 60.8.

   b. Continuous compliance with this emission limit shall be performed by CEMs. The permittee shall install, calibrate, operate and maintain CEMs, in accordance with the requirements of 40 CFR 60.13 and 40 CFR 75 for SO_2 from the PC Boiler.

6. Emissions of sulfur dioxides (SO_2) shall be controlled with the use of a wet flue gas desulfurization control technology. SO_2 emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 734 lb/hr (0.12 lb/MMBtu) based on a 24-hour rolling average.

   a. Continuous compliance with this emission limit shall be performed by CEMs. The permittee shall install, calibrate, operate and maintain CEMs, in accordance with the requirements of 40 CFR 60.13 and 40 CFR 75 for SO_2 from the PC Boiler.

   b. The permittee shall install CEMs to measure SO_2 emissions at the inlet and outlet of the WFGD control device (ID no. CB3) in accordance with 40 CFR 60.47a.

7. Emissions of sulfur dioxides (SO_2) shall be controlled with the use of a wet flue gas desulfurization control technology. SO_2 emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 581 lb/hr (0.095 lb/MMBtu) based on a calendar year and 2,417 tons per calendar year.

   a. Continuous compliance with this emission limit shall be performed by CEMs. The permittee shall install, calibrate, operate and maintain CEMs, in accordance with the requirements of 40 CFR 60.13 and 40 CFR 75 for SO_2 from the PC Boiler.

   b. The permittee shall install CEMs to measure SO_2 emissions at the inlet and

outlet of the WFGD control device (ID no. CB3) in accordance with 40 CFR 60.47a.

8. Emissions of particulate matter (PM) shall be controlled with fabric filter control technology. PM emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 110 lb/hr (0.018 lb/MMBtu) based on a six-hour rolling average.

   a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and 40 CFR 60.8.

   b. Continuous compliance with this emission limit shall be performed by CEMs. The permittee shall install, calibrate, operate and maintain CEMs in accordance with 40 CFR 60 and Performance Specification 11 (PS-11).

   c. The permittee shall demonstrate on-going compliance with this limit by conducting periodic testing every three years from the date of the initial compliance test. This testing shall be conducted in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and 40 CFR 60.8.

9. Emissions of particulate matter less than ten microns (PM-10) shall be controlled with fabric filter control technology. PM-10 (includes filterable and condensables other than water) emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 110 lb/hr (0.018 lb/MMBtu) based on a six-hour rolling average.

   a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Methods 201 or 201A in conjunction with U.S. EPA Test Method 202 or another test method approved by the Director.

   b. The permittee shall demonstrate compliance with this limit by conducting periodic testing every three years from the date of the initial compliance test. This testing shall be conducted in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Methods 201 or 201A in conjunction with U.S. EPA Test Method 202 or another test method approved by the Director.

   c. All compliance demonstrations for this limit shall, at a minimum, consist of three - two hour test runs.

10. Emissions of carbon monoxide (CO) shall be controlled with the use of good combustion practices control technology. CO emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 673 lb/hr (0.11 lb/MMBtu) based on a three-hour rolling average.

    a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 10B or another test method approved by the Director.

    b. Continuous compliance with this emission limit shall be performed by CEMs. The permittee shall install, calibrate, operate and maintain CEMs, in accordance with the requirements of PS-4, PS-4A or PS-4B of Appendix B of 40 CFR 60 and the Quality Assurance Procedures of Appendix F of 40 CFR 60 for CO from the PC Boiler.

11. Emissions of volatile organic compounds (VOC) shall be controlled with the use of good combustion practices control technology. VOC emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 24.5 lb/hr (0.004 lb/MMBtu) based on a three-hour rolling average.

    a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 18 or another test method approved by the Director.

    b. The permittee shall demonstrate compliance with this limit by conducting periodic testing annually from the date of the initial compliance test. This testing shall be conducted in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 18 or another test method approved by the Director.

    c. Continuous compliance with this emission limit shall be determined by using the data generated by CEMs under Paragraph A.10.b for CO as a surrogate for VOC. The permittee shall establish through testing the relationship between CO emissions and VOC emissions. A violation based on the CEMs data for CO and the relationship between CO and VOCs constitutes a violation of this emission limit for VOC. The permittee shall have the option to perform emission testing to verify the relationship between CO and VOC if the CEM data for CO indicates a violation of the VOC emission limit. Testing performed after the violation to determine whether the underlying relationship between CO and VOC has changed shall not be an absolute defense to the violation.

12. Emissions of sulfuric acid mist (H_2SO_4) shall be controlled with the use of dry sorbent injection in conjunction with fabric filter control technology. H_2SO_4 emissions emitted to the atmosphere from the PC Boiler Stack (EP #EB1) shall not exceed 45.8 lb/hr (0.0075 lb/MMBtu) based on a 3-hour rolling average.

    a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 8 or another test method approved by the Director.

    b. The permittee shall demonstrate compliance with this limit by conducting periodic testing annually from the date of the initial compliance test. This testing shall be conducted in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 8 or another test method approved by the Director.

    c. Continuous compliance with this emission limit shall be determined by using the data generated by CEMs under Paragraph A.5.b for SO_2 as a surrogate for H_2SO_4. The permittee shall establish through testing the relationship between SO_2 emissions and H_2SO_4 emissions. A violation based on the CEMs data for SO_2 and the relationship between SO_2 and H_2SO_4 constitutes a violation of this emission limit for H_2SO_4. The permittee shall have the option to perform emission testing to verify the relationship between SO_2 and H_2SO_4 if the CEM data for SO_2 indicates a violation of the H_2SO_4 emission limit. Testing performed after the violation to determine whether the underlying relationship between SO_2 and H_2SO_4 has changed shall not be an absolute defense to the violation.

13. Emissions of Mercury (Hg) from the PC Boiler Stack shall not exceed $1.46x10^{-2}$ lb/hr based on a three-hour average and $6.38x10^{-2}$ TPY based on 12 month rolling average.

    a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 29 or the draft ASTM Z65907, “Standard Method for Both Speciated and Elemental Mercury Determination” or another Test Method approved by the Director.

    b. Continuous compliance with this emission limit shall be determined by Hg CEMs. The permittee shall install, calibrate, operate and maintain CEMs in accordance with 40 CFR 60.

14. Emissions of Beryllium (Be) from the PC Boiler Stack shall not exceed $5.46x10^{-3}$ lb/hr based on a three-hour average.

a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 29 or another Test Method approved by the Director.

b. The permittee shall demonstrate compliance with this emission limit by determining the Be content of the coal consumed by the PC Boiler on a biweekly basis. The permittee shall keep record of this analysis on site and utilize this content with the results of the most recent testing to determine the Be emissions during the respective two week period for which the coal sample was taken.

c. The permittee shall demonstrate compliance with this limit by conducting periodic testing annually from the date of the initial compliance test. This testing shall be conducted in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 29 or another Test Method approved by the Director.

15. Emissions of Lead (Pb) from the PC Boiler Stack shall not exceed 0.109 lb/hr based on a three-hour average.

a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 29 or another Test Method approved by the Director.

b. The permittee shall demonstrate compliance with this emission limit by determining the Pb content of the coal consumed by the PC Boiler on a biweekly basis. The permittee shall keep record of this analysis on site and utilize this content with the results of the most recent testing to determine the Pb emissions during the respective two week period for which the coal sample was taken.

c. The permittee shall demonstrate compliance with this limit by conducting periodic testing annually from the date of the initial compliance test. This testing shall be conducted in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 29 or another Test Method approved by the Director.

16. Emissions of hydrochloric acid (HCL) shall be controlled with the use of dry sorbent injection in conjunction with fabric filter control technology. Emissions of HCL from the PC Boiler Stack shall not exceed 2.14×10^{-3} lb/hr (1.00×10^{-5} lb/MMBtu) based on a three-hour average.

a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate

subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 26A or another test method approved by the Director.

b. The permittee shall determine the chlorine content of the coal consumed by the PC Boiler on a biweekly basis. The permittee shall keep record of this analysis on site and utilize this content with the results of the most recent testing to determine the HCL emissions during the respective two week period for which the coal sample was taken.

c. The permittee shall demonstrate compliance with this limit by conducting periodic testing annually from the date of the initial compliance test. This testing shall be conducted in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 26A or another Test Method approved by the Director.

17. Emissions of hydrofluoric acid (HF) shall be controlled with the use of dry sorbent injection in conjunction with fabric filter control technology. Emissions of HF from the PC Boiler Stack shall not exceed 2.14×10^{-3} lb/hr (1.00×10^{-5} lb/MMBtu) based on a three-hour average.

a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 26A or another test method approved by the Director.

b. The permittee shall determine the fluoride content of the coal consumed by the PC Boiler on a biweekly basis. The permittee shall keep record of this analysis on site and utilize this content with the results of the most recent testing to determine the HF emissions during the respective two week period for which the coal sample was taken.

c. The permittee shall demonstrate compliance with this limit by conducting periodic testing annually from the date of the initial compliance test. This testing shall be conducted in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 26A or another Test Method approved by the Director.

18. Visible emissions from the PC Boiler shall not exceed 10% opacity on a 6-minute averaging period.

a. The permittee shall demonstrate compliance with this standard by complying with the applicable opacity monitoring requirements of 40 CFR 60.46b and 45SCR2 or another test method approved by the Director.

19. The stack height for the PC Boiler shall be constructed at a height of 554 feet above ground elevation.

20. For the purposes of mitigating acid deposition and visibility impacts into the Dolly Sods Wilderness Area, James River Face Wilderness Area, Otter Creek Wilderness Area, and Shenandoah National Park, (collectively the Class I Areas), the permittee shall obtain and permanently retire sulfur dioxide allowances in accordance with the following.

a. The required number of sulfur dioxide allowances for the respective calendar year shall be determined by the actual sulfur dioxide emission, in tons, emitted from the PC boiler during each calendar year plus 10% and multiplied by the corresponding offset ratio as defined in paragraph b of this condition.

b. Acceptable sulfur dioxide allowances under this condition shall be from facilities that were allocated sulfur dioxide allowances under 40 CFR 73 and that are located within one of the five quadrants as defined in the following table:

Quadrant	Northeast	Northwest	Southeast	Southwest	Reduced Western Area
Offset Ratio	1:4	1:1	1:4	1:1	1:1
	Longitude/ Latitude	Longitude/ Latitude	Longitude/ Latitude	Longitude/ Latitude	Longitude/Latitude
Northeast Corner	-77.528845/ 40.100689	-79.312228/ 40.119496	-77.73267/ 38.570665	-79.338651/ 38.603830	-80.555/39.0836
Northwest Corner	-79.312228/ 40.119496	-80.555022/ 40.151887	-79.338651/ 38.603830	-80.944637/ 38.628678	-82.1306/39.0836
Southeast Corner	-77.73267/ 38.570665	-79.338651/ 38.603830	-77.671583/ 37.077938	-79393612/ 37.088164	-80.555/38.1983
Southwest Corner	-79.338651/ 38.603830	-80.944637/ 38.628678	-79393612/ 37.088164	-80.573361/ 37.123911	-82.1306/38.1983

Datum for Coordinates: NAD 83

c. The vintage year of the allowances shall correspond to the calendar year that is being mitigated.

d. The permittee shall transfer these allowances into an account in the Allowance Tracking System administered by with U.S. EPA for the Acid Rain Program, to be identified by the Director. These retired allowances can never be used to meet any compliance requirement under the Clean Air Act or any State Implementation Plan.

e. The permittee shall submit a report to the Director no later than 60 days after the end of each calendar year, which shall contain the amount of sulfur

dioxide emitted; the amount, facility, location of facility, vintage year of allowances retired, proof that allowances have been transferred into account identified by the Director and any applicable serial or other identification associated with the retired allowances.

f. At any time, but after at least 30 days notice to the public and the Federal Land Managers the Director may approve an alternative mitigation plan in lieu of this condition. At a minimum, such a plan shall result in actual sulfur dioxide reductions from an existing stationary source(s) within one of the four quadrants as defined in b of this condition of at least 2,142 tons per year multiplied by the corresponding offset ratio. Such reductions must be practically enforceable, permanent, and quantifiable, and must be created after March 2, 2004. The reductions must result in the same or greater reduction in acid deposition and visibility impacts to the Class I Areas as the purchase of allowances as set forth in Paragraphs A.20.a through A.20.e herein.

21. The PC Boiler is subject to state rules 45 CSR 2, 45 CSR 26 and 45 CSR 33. The permittee shall comply with the applicable requirements from these rules (i.e. monitoring, testing, record keeping, and reporting requirements).

22. The PC Boiler is subject to 40 CFR 60 Subpart Da. The permittee shall comply with the applicable requirements from this regulation (i.e. monitoring, testing, record keeping, and reporting requirements).

23. The following conditions and requirements are specific to the Auxiliary Boiler (ID #SX1):

    a. The hourly heat input of the Auxiliary Boiler shall not exceed 225 million British Thermal Units (MMBtu) per hour.

        i. The permittee shall monitor and record the amount of fuel consumed on a daily basis. Using the amount of fuel consumed, the appropriate Higher Heating Value (HHV) of the fuel and appropriate engineering calculations, the permittee shall determine the hourly heat input of the Auxiliary Boiler on a daily basis.

    b. The permittee shall not operate the Auxiliary Boiler greater than 3,000 hours in a 12-month rolling period.

        i. The permittee shall keep monthly records of hours the auxiliary boiler operated and a 12-month rolling total.

    c. The Auxiliary Boiler shall not consume more than 675 million cubic feet of pipeline quality natural gas on a annual basis.

i. The permittee shall keep monthly records of amount of natural gas consume by the auxiliary boiler and a 12-month rolling total.

d. The permittee shall perform annual maintenance of the Auxiliary Boiler and shall keep records of this maintenance.

24. Emissions of nitrogen oxides (NO_x) shall be controlled with the use of low NO_x burners and good combustion practices control technologies. NO_x emissions emitted to the atmosphere from the Auxiliary Boiler Stack (EP #EX1) shall not exceed 22.1 lb/hr (0.098 lb/MMBtu) based on a three-hour average.

a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and 40 CFR 60.8.

25. Emissions of SO_2 shall be controlled with the use of clean fuels (i.e. natural gas) control technology. SO_2 emissions emitted to the atmosphere from the Auxiliary Boiler Stack (EP #EX1) shall not exceed 0.004 lb/hr ($1.8x10^{-5}$ lb/MMBtu) based on a three-hour average.

a. The auxiliary boiler shall not consume any natural gas with a sulfur content greater than 0.15 grains per 100 cubic of natural gas. The permittee shall keep annual records of the sulfur content of the natural gas consumed.

26. PM and PM-10 emissions emitted to the atmosphere from the Auxiliary Boiler Stack (EP #EX1) shall not exceed 0.50 lb/hr ($2.22x10^{-3}$ lb/MMBtu) based on a six-hour average.

a. Initial compliance with this PM emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and 45CSR2.

27. CO emissions emitted to the atmosphere from the Auxiliary Boiler Stack (EP #EX1) shall not exceed 9 lb/hr (0.04 lb/MMBtu) based on a three-hour average.

a. Initial compliance with this emission limit shall be performed by the permittee through compliance testing in accordance with the appropriate subsections of **Section B**. **Other Requirements** of this permit and U.S. EPA Test Method 10B or another test method approved by the Director.

28. VOC emissions emitted to the atmosphere from the Auxiliary Boiler Stack (EP #EX1) shall not exceed 1.21 lb/hr ($5.4x10^{-3}$ lb/MMBtu) based on a three-hour average.

29. Visible emissions from the PC Boiler shall not exceed 10% opacity on a 6-minute averaging period.

30. The Auxiliary Boiler is subject to state rules 45 CSR 2 and 45 CSR 10. The permittee shall comply with the applicable requirements from these rules (i.e. monitoring, testing, record keeping, and reporting requirements).

31. The Auxiliary Boiler is subject to 40 CFR 60 Subpart Db. The permittee shall comply with the applicable requirements from this regulation (i.e. monitoring, testing, record keeping, and reporting requirements).

32. The following conditions and requirements are specific to the internal combustion engines powering the emergency generator (ID #SG1) and fire pump (ID #SP1):

    a. The hours of operation for the engines of the emergency generator and fire pump shall be limited to 500 hours per rolling 12 month time period for each engine.

        i. The permittee shall keep monthly records of hours of operation and a 12-month rolling total.

    b. The sulfur content of the fuel used in the emergency generator and fire pump engines shall not exceed 0.05% sulfur by weight.

    c. The emergency generator engine (ID #SG1) shall not consume more than 14,750 gallons of fuel on an annual basis.

    d. The fire pump engine (ID #SP1) shall not consume more than 7,380 gallons of fuel on an annual basis.

    e. Emissions from the emergency generator and fire pump engines shall not exceed the following limits:

Table 1 - Emission Limits for the Emergency Generator and Fire Pump Engines

Pollutants	Emergency Generator		Fire Pump	
	lb/hr	tons per year*	lb/hr	tons per year*
SO_2	6.5	1.6	3.3	0.825
PM_{10}	1.13	0.28	0.56	0.14
CO	8.85	2.21	4.43	1.11
NO_x	20.9	5.23	10.5	2.6
VOC	1.21	0.30	0.64	0.16

* Based on operating 500 hours per year

f. The permittee shall perform annual maintenance of the emergency generator and fire pump engine and shall keep records of this maintenance.

33. The conditions and requirements in the following subdivisions are specific to the mechanical draft cooling tower (ID #ST-1):

a. Emissions of PM and PM-10 shall be controlled with a 0.002% drift eliminator or an equivalent control technology. PM-10 emissions emitted to the atmosphere from the Cooling Tower (EP #ET1) shall not exceed 0.90 lb/hr and 3.9 TPY.

i. For the purpose of determining compliance with this emission limit, the permittee shall monitor flow and the concentration of total dissolved solids contained in the circulating water in the cooling tower on a daily basis. The permittee shall determine the PM-10 emissions using the current version of AP-42 for mechanical draft cooling towers.

ii. The permittee shall perform an initial drift test and periodic drift testing once every five years thereafter.

34. The following conditions and requirements are specific to the coal handling operations:

a. The coal transferred through the facility shall not exceed the maximum material throughputs as shown in Table 2 - "Coal Transfer Limits" of this permit.

b. Pollution control mechanisms shall be installed and maintained on all material transfer points in accordance to Table 2 - "Coal Transfer Limits" of this permit.

Table 2 - Coal Transfer Limits

Transfer Point		Pollution Control Device	Maximum Coal Throughput	
ID	Description		Tons/Hour	Tons/Year
C-1	Truck Dump to Hopper/Reclaim Feeder	Wind screens w/dust suppression	1,000	2,365,200
C-2	Reclaim Feeders to Belt	Full Enclosure w/dust suppression	1,000	2,365,200
C-3	Belt to Pile Feeder Belt	Full Enclosure w/dust suppression	1,000	2,365,200
C-4	Belt to Coal Pile	Dust Suppression	1,000	2,365,200
C-6	Coal Reclaim Feeder	Full Enclosure w/dust suppression	600	2,365,200
C-7	Coal Reclaim Feeder	Full Enclosure w/dust suppression	600	2,365,200

Transfer Point		Pollution Control Device	Maximum Coal Throughput	
ID	Description		Tons/Hour	Tons/Year
C-8	Reclaim Feeder to Belt	Full Enclosure	600	2,365,200
C-9	Reclaim Feeder to Belt	Full Enclosure	600	2,365,200
C-10	Belt Transfer to Surge Bin	Full Enclosure w/dust suppression	600	2,365,200
C-11	Belt Transfer to Surge Bin	Full Enclosure w/dust suppression	600	2,365,200
C-12	Belt Transfer to Surge Bin	Full Enclosure w/dust suppression	600	2,365,200
C-15	Crusher Discharge to Belt	Full Enclosure	600	2,365,200
C-16	Crusher Discharge to Belt	Full Enclosure	600	2,365,200
C-17	Belt Transfer to Silo Feed Belt	Full Enclosure w/dust suppression	600	2,365,200
C-18	Belt Transfer to Silo Feed Belt	Full Enclosure w/dust suppression	600	2,365,200
C-19	Belt Transfer to Silo Feed Belt	Full Enclosure w/dust suppression	600	2,365,200
C-20	Belt Transfer to Silo Feed Belt	Full Enclosure w/dust suppression	600	2,365,200
C-22	Crusher Bypass to Belt	Full Enclosure	600	2,365,200
C-23	Crusher Bypass to Belt	Full Enclosure	600	2,365,200

c. Visible emissions from the coal crushers, conveying equipment and coal storage silos shall not exceed 20% opacity on a 6-minute averaging period.

i. The permittee shall conduct periodic compliance testing on a monthly basis in accordance with U.S. EPA Method 22 for the purpose of determinating visible emissions from the coal crushers, conveying equipment and coal storage silos. Should the results of a periodic compliance test reveal that visible emissions are being emitted, the permittee has 24-hours from conducting Method 22 to conduct a Method 9 test to determine compliance with the emission limit in A.34.e of this permit.

d The open stockpile SC-5 shall be limited to a maximum storage capacity of 120,000 tons of coal.

e. The two coal crushers (SC-14 & SC-15) shall not exceed the maximum processing rate of 600 tons per hour and 2,265,200 TPY for each crusher.

f. Emissions of PM and PM-10 from the coal crushers (SC-13 & SC-14) shall be controlled by a full enclosure with a dust suppression at the inlet of each

surge bin for each respective crusher. PM emissions from each crusher shall not exceed 0.04 lb/hr and 0.09 TPY. PM-10 emissions from each crusher shall not exceed 0.02 lb/hr and 0.04 TPY.

g. The six (6) coal storage silos (ID #SC-21) shall be enclosed and vent to dust collector CC-21.

i. Emissions of PM from dust collector CC-21 emitted to the atmosphere at emission point EC-21 shall not exceed 0.34 lb/hr and 1.35 TPY.

ii. Emissions of PM-10 from dust collector CC-21 emitted to the atmosphere at emission point EC-21 shall not exceed 0.29 lb/hr and 1.15 TPY.

h. For the purposes of demonstrating compliance with the requirements in this subsection, the permittee shall monitor and record the daily amount of coal delivered to this facility.

i. The equipment and activities associated with the coal handling operation are subject to State rule 45 CSR 2. The permittee shall comply with the applicable requirements of this rule (i.e. monitoring, testing, record keeping, and reporting requirements).

j. The equipment associated with the coal handling operation is subject to 40 CFR 60 Subpart Y. The permittee shall comply with all applicable requirements from this regulation (i.e. monitoring, testing, record keeping, and reporting requirements).

35. The following conditions and requirements are specific to the limestone handling operations:

a. The material (limestone) transferred through the facility shall not exceed the maximum material throughputs as shown in Table 3 - “Limestone Handling Transfer Limits” on of this permit.

b. Pollution control mechanisms/measures shall be installed and maintained on all material transfer points in accordance with Table 3 - “Limestone Handling Transfer Limits” of this permit.

Table 3 - Limestone Handling Transfer Limits

Transfer Point		Pollution Control Device	Maximum Throughput	
ID	Description		Tons/Hour	Tons/Year
L-1	Truck Dump to Limestone Hopper Feeder	Partial Enclosure with dust suppression	150	750,075

Transfer Point		Pollution Control Device	Maximum Throughput	
ID	Description		Tons/Hour	Tons/Year
L-2	Feeder Transfer to Bucket Elevator	Full Enclosure w/dust suppression	150	750,075
L-3	Bucket Elevator Discharge to Pile Tripper Belt	Full Enclosure w/dust suppression	150	750,075
L-4	Belt Transfer to Limestone Pile	Partial Enclosure and Telescopic Chute	150	750,075
L-6	Reclaim Transfer to Reclaim Hopper/Belt	Partial Enclosure	150	750,075
L-7	Reclaim Belt to Reclaim Conveyor	Full Enclosure w/dust suppression	150	750,075
L-8	Reclaim Conveyor to Storage Conveyor	Partial Enclosure w/dust suppression	150	750,075
L-9	Bucket Elevator Discharge to Conveyor	Partial Enclosure w/dust suppression	150	750,075
L-10	Conveyor to Storage Conveyor	Partial Enclosure w/dust suppression	150	750,075
L-12	Silo Drop to Weigh Feeder	Full Enclosure	150	750,075
L-13	Ball Mill	Partial Enclosure	150	750,075

c. Stockpile L-5 shall be limited to a maximum storage capacity of 13,680 tons of limestone.

d. Stockpile L-5 shall be located in an A-frame enclosure with a roof and partial walls.

e. The limestone day silo (SL-11) shall be enclosed and vent to a dust collector (EL-11).

i. PM from limestone day silo vented to the atmosphere at emission point EL-11 shall not exceed 0.34 lb/hr based on a three-hour averaging period and 0.86 TPY.

ii. PM-10 from limestone day silo vented to the atmosphere at emission point EL-11 shall not exceed 0.29 lb/hr based on a three-hour averaging period and 0.73 TPY.

iii. Visible emissions from emission point EL-11 shall not exceed 7% opacity on a six-minute averaging period.

iv. The permittee shall conduct initial compliance testing in accordance with 40 CFR 60.08 for the purpose of demonstrating compliance with the emission limits in A.35.e.i and A.35.e.iii of this permit.

v. The permittee shall conduct periodic compliance testing on a monthly basis in accordance with U.S. EPA Method 22 for the purpose of determinating visible emissions from emission point EL-11. Should the results of a periodic compliance test reveal that visible emissions are being emitted, the permittee has 24-hours from conducting Method 22 to conduct a Method 9 test to determine compliance with the emission limit in A.35.e.iii of this permit.

vi. The permittee shall maintain records of these compliance tests on site for a period of five (5) years.

f. The equipment associated with the limestone handling operation is subject to 40 CFR 60 Subpart OOO. The permittee shall comply with all applicable requirements from this regulation (i.e. monitoring, testing, record keeping, and reporting requirements).

36. The following conditions and requirements are specific to the ash handling operations:

a. The permittee shall use a pressurized system to transfer all fly ash.

b. The permittee shall install, operate, and maintain a bin exhaust filter to control PM emissions from the fly ash storage (CA-1).

c. The bottom ash storage pile SA-7 shall be limited to a maximum storage capacity of 1,170 tons of bottom ash.

d. The gypsum storage pile SG-1 shall be limited to a maximum storage capacity of 13,680 tons of gypsum.

37. Fugitive dust control measures as proposed in Permit Applications R14-0024 shall be installed, maintained, and operated in such a manner as to minimize dust generation and atmospheric entrainment pursuant to Section 5 of 45 CSR 2. Such measures shall include, but not be limited to, the following:

a. Water spray systems for the purpose of fugitive particulate dust control shall be designed, installed, operated, and maintained so as to minimize the generation of fugitive particulate emissions from the wind erosion of stockpiles.

A properly designed, installed, and maintained winterization system on each of the water spray systems shall be in place so to functionally maintain all

fugitive particulate dust control during periods when ambient temperature falls to or below 32 degrees Fahrenheit.

b. The permittee shall maintain a fixed water spray system and/or a water truck on site at the facility and in good operating condition, and shall utilize same to apply water, or a mixture of water and an environmentally acceptable dust control additive, hereinafter referred to as solution, as often as is necessary in order to minimize the atmospheric entrainment of fugitive particulate emissions that may be generated from haul roads and other work areas where mobile equipment is used.

   The spray bar shall be equipped with commercially available spray nozzles, of sufficient size and number, so as to provide adequate coverage to the surface being treated.

   The pump delivering the water, or solution shall be of sufficient size and capacity so as to be capable of delivering to the spray nozzle(s) an adequate quantity of water, or solution, and at a sufficient pressure.

c. The permittee shall maintain and operated as need to minimize fugitive particulate matter from haul roads a street sweeper or other mobile equipment designed to remove debris (road dust) from paved plant roads. This activity shall be conducted daily to minimize fugitive particulate matter from paved plant roadways.

d. All belt conveyors shall be at a minimum partially enclosed.

38. The permittee shall construct and maintain an industrial fence around this permitted facility as defined in the March 3, 2003 submittal of the Air Quality Modeling Analysis Report. This industrial fence shall be constructed in such a manner to reasonably prevent the public from accessing this permitted facility.

39. All roadways at the permitted facility shall be paved, and maintained in such a way to minimize fugitive particulate matter emissions.

40. Notwithstanding the specific emission limits of Hazardous Air Pollutants (HAPs) in this permit, the facility wide total emissions to the atmosphere of HAPs as defined by Section 112(b) of the 1990 Clear Air Act Amendments shall be less than 10 TPY of any single HAP and less than 25 TPY of combined total of HAPs from the facility.

    a. The permittee shall on a monthly basis determine and keep record of the total amount of HAPs emitted from the facility during the past year on a rolling 12-month total basis. Records of this determination shall be on a speciated HAP basis and summing the total amount of HAP emitted during the previous 12-months. All records used to determine the amount of HAPs

emitted must include but not be limited to sample calculations and collected data (i.e. fuel consumption, hours operated).

B. OTHER REQUIREMENTS

1. In accordance with 45CSR30 - "Operating Permit Program", enclosed with this permit is a Certified Emissions Statement (CES) Invoice, from the date of initial startup through the following June 30. Said invoice and the appropriate fee shall be submitted to this office no later than 30 days prior to the date of initial startup. For any startup date other than July 1, the permittee shall pay a fee or prorated fee in accordance with the Section 4.5 of 45CSR22. A copy of this schedule may be found attached to the Certified Emissions Statement (CES) Invoice.

2. The permittee shall comply with all applicable provisions of 45CSR2, 45CSR10, 45CSR11, 45CSR14, 45CSR16, 45CSR26, 45CSR30, 45CSR33, 40 CFR 60 - Subpart Da, 40 CFR 60 - Subpart Db, 40 CFR 60 - Subpart Y, and 40 CFR 60 - Subpart OOO provided that the permittee shall comply with any more stringent requirements as may be forth under **SPECIFIC REQUIREMENTS**, Section (A) of this permit.

3. As for any testing required by this permit or the Director, the permittee shall submit to the Director of the Division of Air Quality a test protocol detailing the proposed test methods, the date, and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information. The test protocol must be received by the Division no less than thirty (30) days prior to the date the testing is to take place. Test results shall be submitted to the Division no more than sixty (60) days after the date the testing takes place.

4. Monitoring, Record keeping and Reporting sufficient to demonstrate compliance with the specific emissions limits and operating parameters set forth in Section A, Specific Requirements, of this permit shall be maintained on-site for at least five (5) years and shall be made available to the Director or his/her duly authorized representative upon request. All requested records must be signed by a “Responsible Official” within 10 days of the request using the CERTIFICATION OF DATA ACCURACY statement (See Attachment A) which is to be attached to, or copied to the reverse side of each reporting form.

5. In complying with all applicable federal regulations, all notices and reports required to be submitted to the Administrator of the United States Environmental Protection Agency (“U.S. EPA”) shall be also submitted to the Director of the Division of Air Quality in accordance with the requirements of the applicable federal regulation.

6. All reports including testing protocols required under the terms and conditions of this permit shall be forwarded to:

Director WV DEP - Division of Air Quality 601 57th St., SE Charleston, WV 25304	***And***	WV DEP - Division of Air Quality NCRO 2031 Pleasant Vally Rd., Suite 1 Fairmont, WV 26554

7. The pertinent sections of 45CSR14 applicable to this facility include, but are not limited to, the following:

§45-14-7.1
Any person proposing to construct, or relocate a major stationary source or major modification shall meet each applicable emissions limitation promulgated by the Director and any applicable emissions standard or standard of performance under 40 CFR 60, 61, and 63.

§45-14-7.3
Any person proposing a major modification of a stationary source shall apply best available control technology for each regulated pollutant for which such proposed major modification would cause a significant net emissions increase from such source. This requirement applies to each proposed emissions unit at which a net emissions increase in the pollutant would occur as a result of a physical change or change in the method of operation in the unit.

§45-14-18.1.
A permittee may petition the Director for a transfer of a permit previously issued in accordance with this rule. The Director shall approve such permit transfer provided the following conditions are met:

§45-14-18.1(a)
The permittee, in the petition, describes the reasons for the requested permit transfer and certifies that the subject source is in compliance with all the provisions and requirements of its permit, and

§45-14-18.1(b)
The transferee acknowledges, in writing, that it accepts and will comply with all the requirements, terms, and conditions as contained in the subject permit.

§45-14-18.2.
The Director shall suspend or revoke a permit if, after eighteen (18) months from the date of issuance the holder of the permit cannot provide the Director, at the Director's request, with written proof of a good faith effort that such construction, modification, or relocation has commenced and remains ongoing. Such proof shall be provided not later than thirty (30) days after the Director's request.

§45-14-18.3.
The Director may suspend, modify, or revoke the permit if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to.

C. GENERAL REQUIREMENTS

1. In accordance with 45CSR30 - "Operating Permit Program", the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first filing a Certified Emissions Statement (CES) and paying the appropriate fee. Such Certified Emissions Statement (CES) shall be filed and the appropriate fee paid annually. 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.

2. 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.

3. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R14-0024, R14-0024A, R14-0024B, and any 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.

4. At such reasonable time(s) as the Secretary may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in the permit application and/or applicable regulations. Test(s) shall be conducted in such a manner as the Secretary may specify or approve and shall be filed in a manner acceptable to the Secretary. The Secretary, or his/her duly authorized representative, may at his option witness or conduct such test. Should the Secretary exercise his option to conduct such test(s), the permittee shall provide all the 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. For any tests to be conducted by the permittee, a test protocol shall be submitted to the DAQ by the permittee at least thirty (30) days prior to the test and shall be approved by the Secretary. The Secretary shall be notified at least fifteen (15) days in advance of the actual dates and times during which the test will be conducted.

5. In the event the permittee should deem it necessary to suspend, for a period in

excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, 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.

6. 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.

7. The permittee shall notify the Secretary, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized under this permit.

8. The permittee shall notify the Secretary, in writing, at least fifteen (15) calendar days prior to actual startup of the operations authorized under this permit.

9. This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13.

10. 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.

11. At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous calendar 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 submittal frequency other than on an annual basis.

ISSUED BY: _____

JOHN A. BENEDICT, DIRECTOR
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

DATE SIGNED: _____

ATTACHMENT A

CERTIFICATION OF DATA ACCURACY

CERTIFICATION OF DATA ACCURACY

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

Name (Type or Print): _____

Signature[1]: _____

Title: _____

Date: _____

Telephone No.: _____

Fax No.: _____

[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 U.S. EPA); or

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