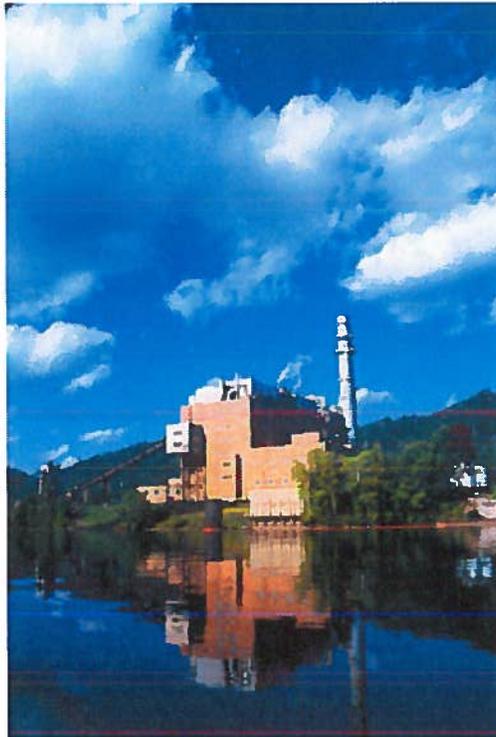


Appalachian Power Company
Kanawha River Plant

Regulation 30 Permit Renewal Application
R30-03900006-2009



Prepared For:
Appalachian Power Company
Kanawha River Plant
Glasgow, West Virginia

Prepared By:

American Electric Power
Environmental Services
1 Riverside Plaza
Columbus, Ohio 43215
November 2013

**Appalachian Power Company
Kanawha River Plant**

Regulation 30 Permit Renewal Application

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. Name of Applicant (As registered with the WV Secretary of State's Office): Appalachian Power Company (d.b.a. American Electric Power)
2. Facility Name or Location: Kanawha River Plant
3. DAQ Plant ID No.: 0 3 9 - 0 0 0 0 6
4. Federal Employer ID No. (FEIN): 54 - 0124790
5. Permit Application Type: [X] Permit Renewal
6. Type of Business Entity: [X] Corporation
7. Is the Applicant the: [X] Both
8. Number of onsite employees: Approx. 80
9. Governmental Code: [X] Privately owned and operated; 0
10. Business Confidentiality Claims: [X] No

11. Mailing Address		
Street or P.O. Box: P.O. Box 110		
City: Glasgow	State: West Virginia	Zip: 25096-0110
Telephone Number: : (304) 353-3546	Fax Number: (304) 353-3500	

12. Facility Location		
Street: #1 AEP Way	City: Glasgow	County: Kanawha County
UTM Easting: 462.96 km	UTM Northing: 4228.62 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: Facility is located on State Route 60, ½ mile east of Glasgow, West Virginia.		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, for what air pollutants? PM2.5	
Is facility located within 50 miles of another state? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, name the affected state(s). Ohio Pennsylvania	
Is facility located within 100 km of a Class I Area ¹ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, name the area(s).	
If no, do emissions impact a Class I Area ¹ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
¹ Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.		

13. Contact Information		
Responsible Official: A. M. Sink		Title: Plant Manager
Street or P.O. Box: P.O. Box 110		
City: Glasgow	State: WV	Zip: 25096-0110
Telephone Number: (304) 353-3546	Fax Number: (304) 353-3500	
E-mail address: amsink@aep.com		
Environmental Contact: J. Simms		Title: Energy Production Supervisor
Street or P.O. Box: P.O. Box 110		
City: Glasgow	State: WV	Zip: 25096-0110
Telephone Number: (304) 348-4751	Fax Number: (304) 353-3500	
E-mail address: jsimms@aep.com		
Application Preparer: G. J. Wooten		Title: Senior Engineer
Company: AEP Service Corporation		
Street or P.O. Box: 1 Riverside Plaza, 22 nd Floor		
City: Columbus	State: OH	Zip: 43215-
Telephone Number: (614) 716-1262	Fax Number: (614) 716-1252	
E-mail address: gjwooten@aep.com		

14. Facility Description			
List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.			
Process	Products	NAICS	SIC
Coal Fired Electric Generating Unit	Electricity	221112	4911
<p>Provide a general description of operations.</p> <p>The Kanawha River Plant is a fossil fuel fired electric generation facility and operates under Standard Industrial Code (SIC) 4911. The facility consists of two coal-fired steam generators that provide a steam supply to turbine driven electrical generators. The facility also includes various supporting operations including by not limited to coal handling, ash handling, wastewater treatment system and various tanks with insignificant emissions. The facility has the potential to operate seven days per week, twenty-four hours per day, and 52 weeks per year.</p>			
<p>15. Provide an Area Map showing plant location as ATTACHMENT A.</p>			
<p>16. Provide a Plot Plan(s), e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as ATTACHMENT B. For instructions, refer to "Plot Plan - Guidelines."</p>			
<p>17. Provide a detailed Process Flow Diagram(s) showing each process or emissions unit as ATTACHMENT C. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.</p>			

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input checked="" type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input checked="" type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS	<input checked="" type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input checked="" type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input checked="" type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input checked="" type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input checked="" type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input checked="" type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	

19. Non Applicability Determinations

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

- **45 CSR 5:** Pursuant to 45CSR5, if 45CSR2 is applicable to the facility, then the facility is exempt from 45CSR5. 45CSR2 is applicable to the facility.
- **45 CSR 17:** Pursuant to 45CSR17, if 45CSR2 is applicable to the facility, then the facility is exempt from 45CSR17. 45CSR2 is applicable to the facility.
- **40 CFR 60 Subpart D:** The fossil fuel fired steam generators potentially affected by this rule have not commenced construction or modification after August 17, 1971.
- **40 CFR 60 Subpart Da:** The electric utility steam generating units potentially affected by this rule have not commenced construction or modification after September 18, 1978.
- **40 CFR 60 Subpart K:** The facility doesn't include storage vessels that are used to store petroleum liquids (as defined in 40 CFR 60.111(b)) and have storage capacity greater than 40,000 gallons for which construction, reconstruction, or modification commenced after June 11, 1973 and prior to May 19, 1978.
- **40 CFR 60 Subpart Ka:** The facility does not include storage vessels that are used to store petroleum liquids (as defined in 40 CFR 60.111(b)) and that have a storage capacity greater than 40,000 gallons for which construction, reconstruction, or modification was commenced after May 18, 1978 and prior to July 23, 1984.
- **40 CFR 60 Subpart Kb:** Storage vessels potentially affected by this rule are exempted because they contain liquids with a maximum true vapor pressure of less than 3.5 kPa, have a storage capacity of less than 75 cubic meters, or have not commenced construction, reconstruction or modification after July 23, 1984.

Permit Shield

19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

- **40 CFR 60 Subpart Y:** The coal handling equipment potentially affected by this rule has not been constructed or modified after October 24, 1974.
- **40 CFR 63 Subpart Q:** This facility does not include industrial process cooling towers that have operated with chromium-based water treatment chemicals on or after September 8, 1994.

Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

- 45CSR6, R30-03900006-2009 Section 3.1.1 and 3.1.2 (Open Burning)
- 40CFR61, R30-03900006-2009 Section 3.1.3 (Asbestos)
- 45CSR4, R30-03900006-2009 Section 3.1.4 (Odor)
- 45CSR11-5.2, R30-03900006-2009 Section 3.1.6 (Standby Plan)
- WV Code 22-5-4(a)(14), R30-03900006-2009 Section 3.1.7 (Emission Inventory)
- 40CFR82, R30-03900006-2009 Section 3.1.8 (Ozone-depleting Substances)
- 40CFR68, R30-03900006-2009 Section 3.1.9 (Risk Management Plan)
- 45CSR2, R30-03900006-2009 Section 3.1.11 (Fugitive Particulate Matter Control)
- 45CSR39, R30-03900006-2009 Section 3.1.13 (Annual NOx CAIR Program)
- 45CSR40, R30-03900006-2009 Section 3.1.14 (Ozone Season NOx CAIR Program)
- 45CSR41, R30-03900006-2009 Section 3.1.15 (Annual SO2 CAIR Program)

Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

- 45CSR2, 45CSR10, and WV Code 22-5-4(a), R30-03900006-2009 Section 3.3.1 (Stack Testing)
- 45CSR30-5.1.c.2.A, R30-03900006-2009 Section 3.4.1 (Monitoring Information)
- 45CSR30-5.1.c.2.B, R30-03900006-2009 Section 3.4.2 (Retention of Records)
- 45CSR30-5.1.c, R30-03900006-2009 Section 3.4.3 (Odors)
- 45CSR30-5.1.c, R30-03900006-2009 Section 3.4.4 (Fugitive Particulate Matter Control)
- 45CSR30-5.1.c.3, R30-03900006-2009 Sections 3.4.1-3.4.3 (Reporting Requirements)
- 45CSR30-8, R30-03900006-2009 Section 3.5.4 (Certified Emissions Statement)
- 45CSR30-5.3.e, R30-03900006-2009 Section 3.5.5 (Compliance Certification)
- 45CSR30-5.1.c.3.A, R30-03900006-2009 Section 3.5.6 (Semi-Annual Monitoring Reports)
- R30-03900006-2009 Section 3.5.7 (Emergency Reporting)
- 45CSR30-5.1.c.3, R30-03900006-2009 Section 3.5.8 (Deviation Reports)
- 45CSR30-4.3.f.1.B, R30-03900006-2009 Section 3.5.9 (New Applicable Requirements)

Are you in compliance with all facility-wide applicable requirements? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Are you in compliance with all facility-wide applicable requirements? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit <i>(if any)</i>
R33-3936-2017-4A	05/14/2013	
U.S. District Court Consent Decree regarding Civil Actions C2-99-1182, C2-05-360 and C2-04-1098	12/13/2007	Consent Decree for NSR lawsuits
WV Consent Order COR37-C-2008-4	04/07/2008	
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Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	1,355
Nitrogen Oxides (NO _x)	16,910
Lead (Pb)	1.06
Particulate Matter (PM _{2.5}) ¹	258
Particulate Matter (PM ₁₀) ¹	588
Total Particulate Matter (TSP)	899
Sulfur Dioxide (SO ₂)	27,331
Volatile Organic Compounds (VOC)	298
Hazardous Air Pollutants ²	Potential Emissions
Hydrogen Chloride	3,596
Hydrogen Fluoride	312
Selenium	14.1
Manganese	1.1
Nickel	0.49
Arsenic	1.64
Mercury Compounds	0.51
Beryllium	3.9
Chromium	0.58
Cobalt	0.21
Regulated Pollutants other than Criteria and HAP	Potential Emissions

¹PM_{2.5} and PM₁₀ are components of TSP.
²For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input checked="" type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input checked="" type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input type="checkbox"/>	7. Blacksmith forges.
<input checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input checked="" type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input checked="" type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input checked="" type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO _x , SO ₂ , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____ _____ _____ _____ _____

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input checked="" type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input checked="" type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input checked="" type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input checked="" type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input checked="" type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input checked="" type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant

24. Insignificant Activities (Check all that apply)	
	owners/operators must still get a permit if otherwise requested.)
<input checked="" type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input checked="" type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input checked="" type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input type="checkbox"/>	51. Steam cleaning operations.
<input checked="" type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input checked="" type="checkbox"/>	54. Steam vents and safety relief valves.
<input checked="" type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input checked="" type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input checked="" type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input checked="" type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the Title V Equipment Table and provide it as ATTACHMENT D .
26. Emission Units
For each emission unit listed in the Title V Equipment Table , fill out and provide an Emission Unit Form as ATTACHMENT E .
For each emission unit not in compliance with an applicable requirement, fill out a Schedule of Compliance Form as ATTACHMENT F . N/A
27. Control Devices
For each control device listed in the Title V Equipment Table , fill out and provide an Air Pollution Control Device Form as ATTACHMENT G .
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the Compliance Assurance Monitoring (CAM) Form(s) for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as ATTACHMENT H .

Section 6: Certification of Information

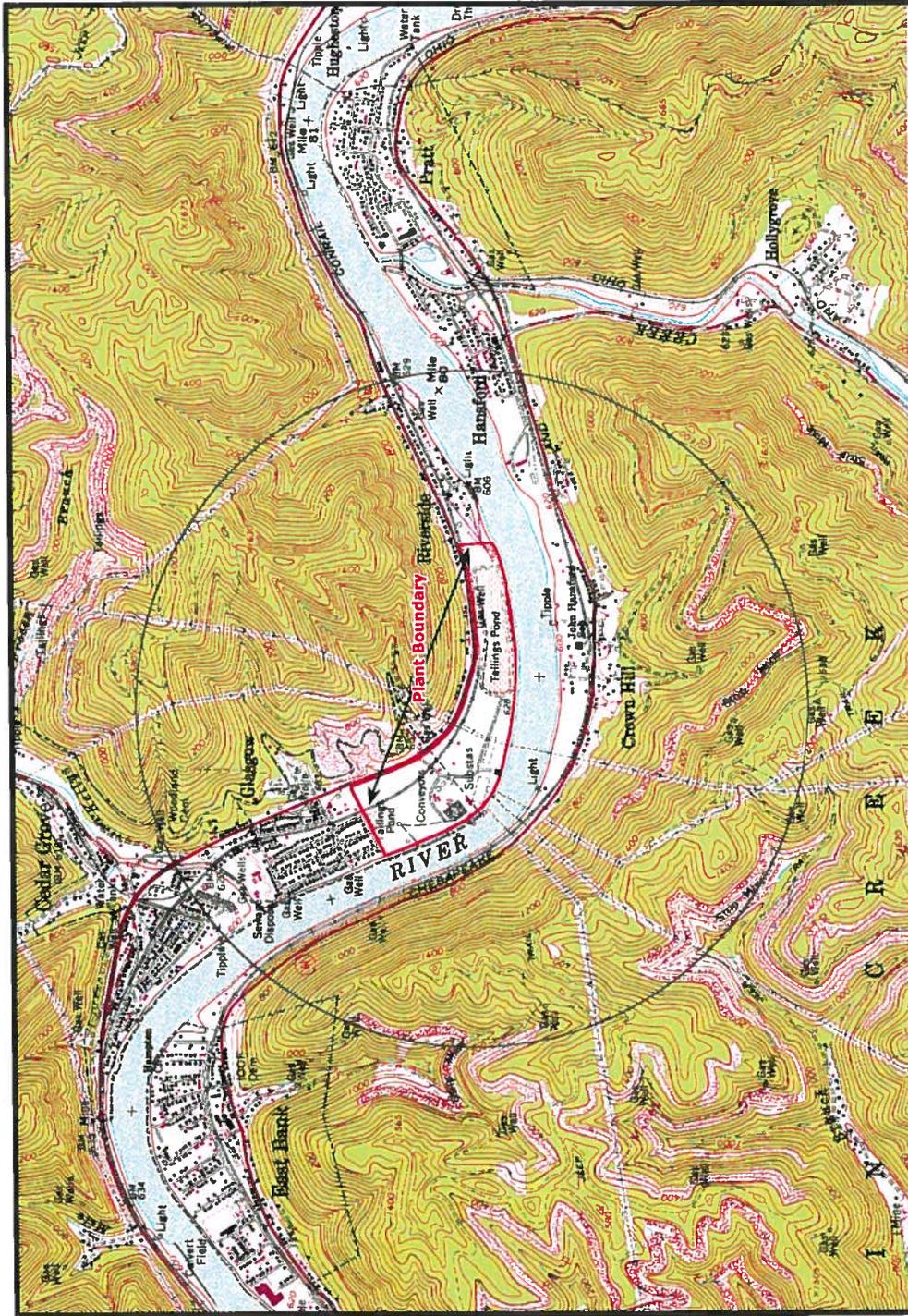
<p>28. Certification of Truth, Accuracy and Completeness and Certification of Compliance</p> <p><i>Note: This Certification must be signed by a responsible official. The original, signed in blue ink, must be submitted with the application. Applications without an original signed certification will be considered as incomplete.</i></p>	
<p>a. Certification of Truth, Accuracy and Completeness</p> <p>I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.</p>	
<p>b. Compliance Certification</p> <p>Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.</p>	
<p>Responsible official (type or print)</p>	
Name: Aaron M. Sink	Title: Plant Manager
<p>Responsible official's signature:</p> <p>Signature: <u></u> Signature Date: <u>11/20/2013</u></p> <p style="text-align: center; font-size: small;">(Must be signed and dated in blue ink)</p>	

<p>Note: Please check all applicable attachments included with this permit application:</p>	
<input checked="" type="checkbox"/>	ATTACHMENT A: Area Map
<input checked="" type="checkbox"/>	ATTACHMENT B: Plot Plan(s)
<input checked="" type="checkbox"/>	ATTACHMENT C: Process Flow Diagram(s)
<input checked="" type="checkbox"/>	ATTACHMENT D: Equipment Table
<input checked="" type="checkbox"/>	ATTACHMENT E: Emission Unit Form(s)
<input type="checkbox"/>	ATTACHMENT F: Schedule of Compliance Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/dag, requested by phone (304) 926-0475, and/or obtained through the mail.

Attachment A

Area Map



**Appalachian Power Company
Kanawha River Plant**

Figure 1 - Vicinity map

Water & Ecological
Resource Services
AEP

Cedar Grove WVs
 Quadrangle
 USGS 7.5 minute series
 Photographic map
 Projection: UTM
 Zone: 18
 Datum: NAD 83
 Spheroid: GRS 80
 Datum: NAD 83
 Units: Meter
 Scale: 1:25,000

0 1 mile

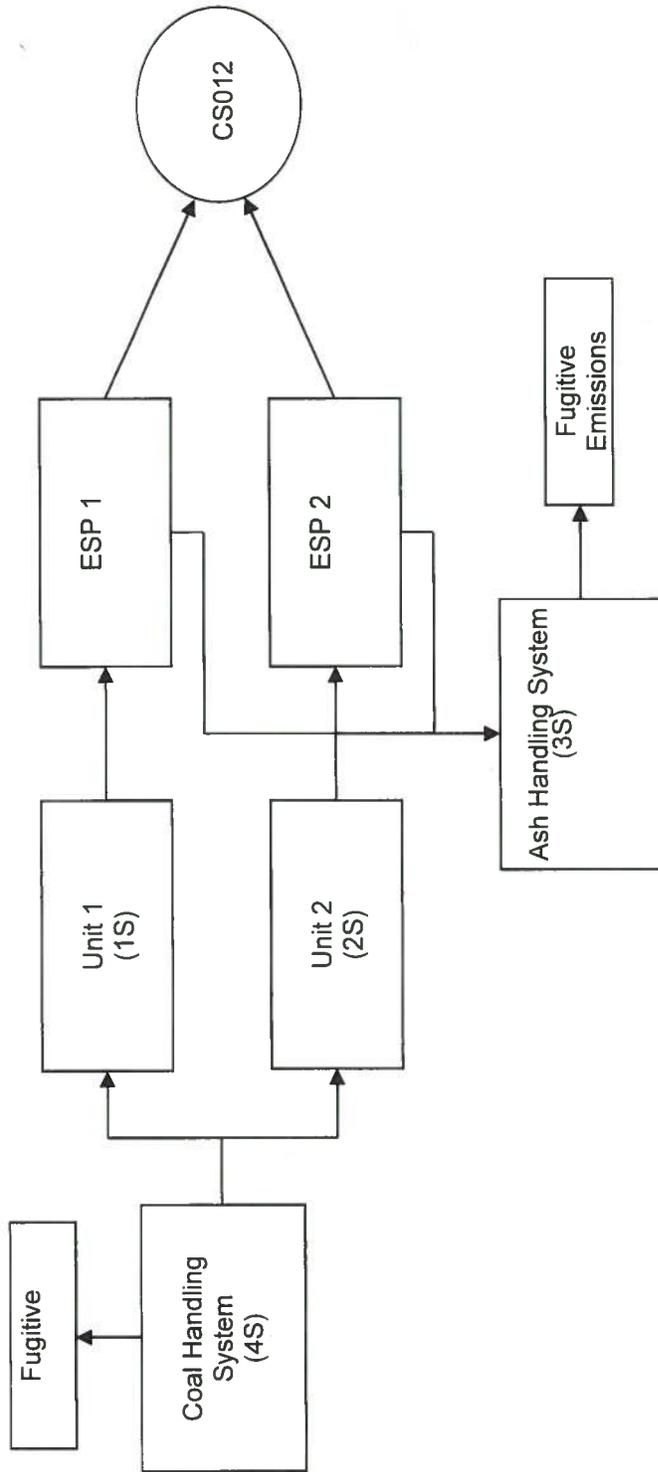
Attachment B

Plot Plan

Attachment C

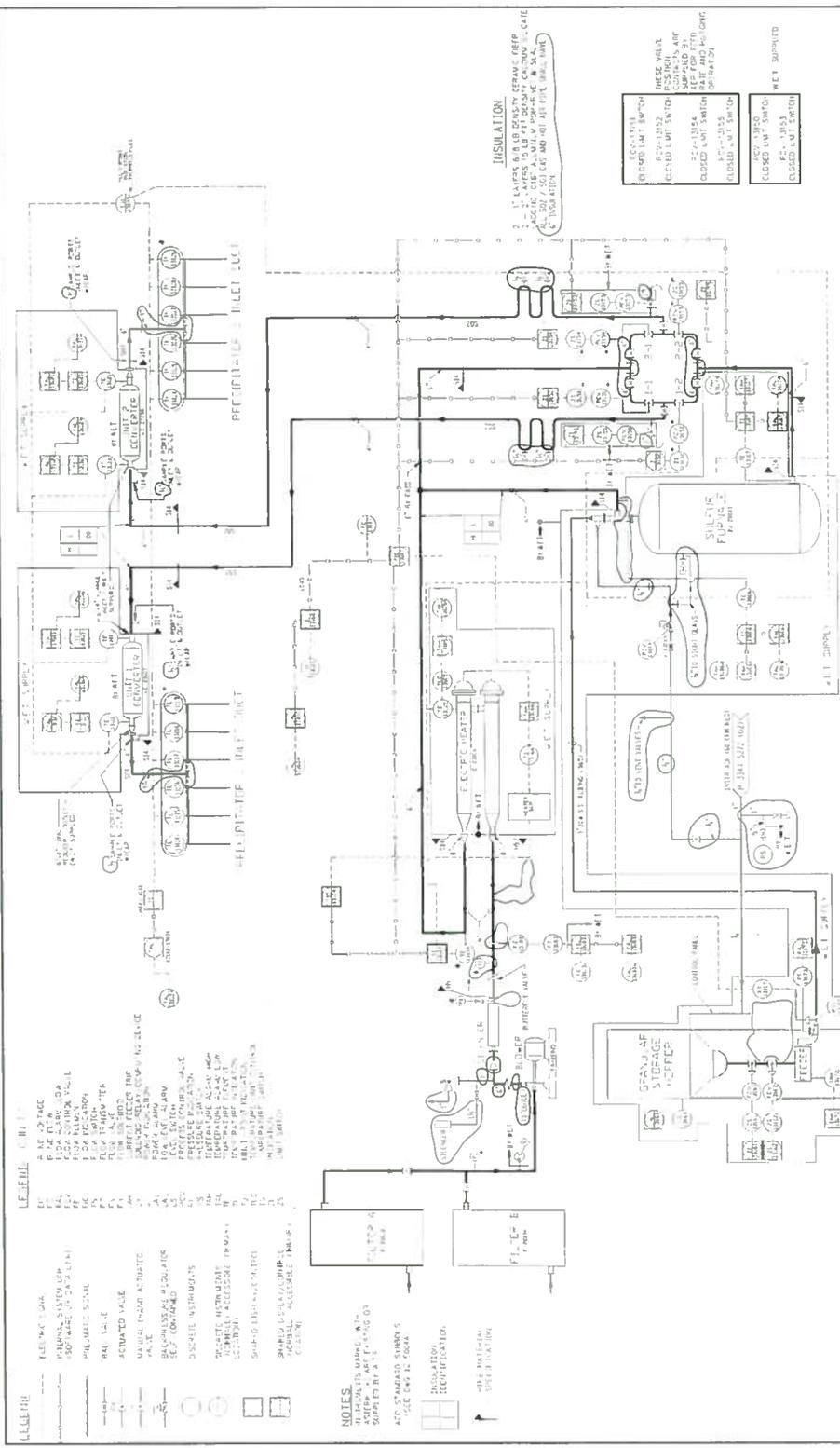
Process Flow Diagrams

Kanawha River Plant
Emission Source Flow Diagram



LEGEND

NOTES



APPENDIX

APPENDIX TABLE 1
APPENDIX TABLE 2

APPENDIX TABLE 3
APPENDIX TABLE 4

APPENDIX TABLE 5
APPENDIX TABLE 6

APPENDIX TABLE 7
APPENDIX TABLE 8

APPENDIX TABLE 9
APPENDIX TABLE 10

APPENDIX TABLE 11
APPENDIX TABLE 12

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NOTES



APPENDIX TABLE 13
APPENDIX TABLE 14

LEGEND

NOTES



APPENDIX TABLE 15
APPENDIX TABLE 16

LEGEND

NOTES

Drawn by: [Name]
Checked by: [Name]
Date: [Date]

NO.	REV.	DESCRIPTION
1		ISSUED FOR CONSTRUCTION
2		ISSUED FOR CONSTRUCTION
3		ISSUED FOR CONSTRUCTION

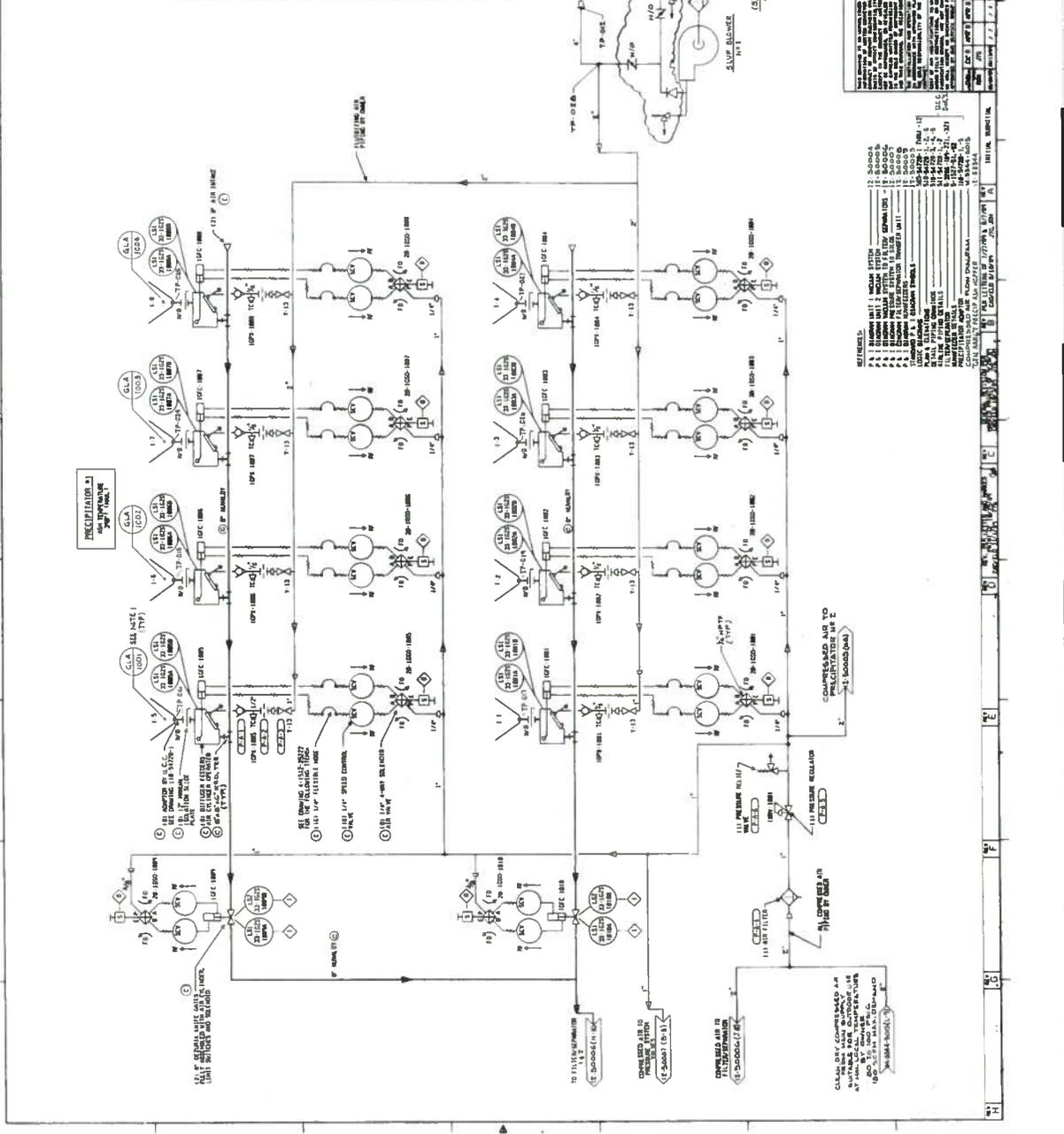
GENERAL NOTES:

1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
2. ALL MATERIALS SHALL BE AS SPECIFIED IN THE SPECIFICATIONS.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).
4. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).
5. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL AUTHORITY.

ITEM	DESCRIPTION	QUANTITY	UNIT
1.0	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.1	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.2	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.3	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.4	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.5	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.6	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.7	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.8	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.9	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.10	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.11	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.12	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.13	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.14	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.15	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.16	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.17	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.18	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.19	1.0" DIA. GALV. STEEL PIPE	100	FT.
1.20	1.0" DIA. GALV. STEEL PIPE	100	FT.

NOTES:

1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
2. ALL MATERIALS SHALL BE AS SPECIFIED IN THE SPECIFICATIONS.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).
4. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).
5. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL AUTHORITY.



REFERENCES:

1. NATIONAL ELECTRICAL CODE (NEC)
2. NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72)
3. ASME BOILER AND PRESSURE VESSEL CODE (ASME B31.1)
4. ASME PIPING CODE (ASME B31.3)
5. ASME VALVE CODE (ASME B16.34)
6. ASME FLANGES AND GASKETS CODE (ASME B16.5)
7. ASME BOLDS CODE (ASME B18.21.1)
8. ASME BOLDS CODE (ASME B18.21.2)
9. ASME BOLDS CODE (ASME B18.21.3)
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102. ASME BOLDS CODE (ASME B18.21.96)
103. ASME BOLDS CODE (ASME B18.21.97)
104. ASME BOLDS CODE (ASME B18.21.98)
105. ASME BOLDS CODE (ASME B18.21.99)
106. ASME BOLDS CODE (ASME B18.21.100)

PROJECT NO. 12-50004-2
 SHEET NO. 1 OF 1
 DATE: 12/15/2011
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

Attachment D

Title V Equipment Table

ATTACHMENT D - Title V Equipment Table
 (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
Boilers and Associated Equipment					
CS012	High efficiency ESP, LNB	Unit 1	Boiler: Babcock & Wilcox, Model # RB-154	1950 mmBtu/hr	1953
CS012	High efficiency ESP, LNB	Unit 2	Boiler: Babcock & Wilcox, Model # RB-154	1950 mmBtuthr	1953
Coal and Ash Handling Equipment					
BU	MC, WS	BU	Barge Unloader (barge to F-I, C-I)	750 TPH	2007
Sta-I	MC, WS, PE	Station I	BU thou F-I to C-I	NA	1953
F-I	MC, PE	Feeder I	BU to C-I	750 TPH	1953
C-I	MC, PE	Conveyor I	BU to Sta-II	750 TPH	1953
Sta-II	MC, FE	Station II	C-I thru CRI, CRII, Scn-I to C-II	NA	1953
CR-I	MC, FE	Crusher I	Optional Path from C-I to C-II	400 TPH	1953
CR-II	MC, FE	Crusher II	Optional Path from C-I to C-II	400 TPH	1953
Scn-I	MC, FE	Screen I	Optional Path from C-I to C-II	800 TPH	1953
C-II	MC, PE	Conveyor II	Sta-II to CSA	750 TPH	1953
CSA	MC, WS	CSA	Coal Storage Area	325,000 Tons	1953
CTU	MC, WS	CTU	Coal Truck Unloading onto CSA	Max - 200 Coal Trucks	1953
Sta- III	MC, FE	Station III	CSA thru F-II, F-III, F-IV, F-V to C-III	NA	1953
F-II	MC, FE	Feeder II	CSA to C-III	750 TPH	1953
F-III	MC, FE	Feeder III	CSA to C-III	750 TPH	1953
F-IV	MC, FE	Feeder IV	CSA to C-III	750 TPH	1953
F-V	MC, FE	Feeder V	CSA to C-III	750 TPH	1953
Sta-IIIA	MC, FE	Station IIIA	CSA thru F-VI to C-III	NA	1953
F-VI	MC, FE	Feeder VI	CSA to C-III	750 TPH	1953
C-III	MC, PE	Conveyor III	CSA thru Feeders II to VI to C-IV	1500 TPH	1953
Sta-IV	MC, FE	Station IV	C-III to C-IV	NA	1953
C-IV	MC FE	Conveyor IV	C-III to Tripper I	1500 TPH	1953

T-1	MC, FE	Tripper 1	C-IV to Unit Coal Bunkers	1500 TPH	1953
FA-TB	FE, VF	FA Truck Bin	Flyash Truck Bin	400 Tons	1968
FA-S1	FE, VF	FA Silo 1	Flyash Storage Silo 1	200 Tons	1968
FA-S2	FE, VF	FA Silo 2	Flyash Storage Silo 2	150 Tons	1968
FA-S3	FE, VF	FA Silo 3	Flyash Storage Silo 3	150 Tons	1968
FA-TL	WS, PE	FA-Truck Load Out	Flyash load out to trucks.	Max - 30 Trucks loaded per day	N/A
HR	WS	Haul Roads	Roads for Coal & Flyash Transport	NA	1952
Miscellaneous Other					
PEI	NA	Pump Engine 1	Diesel Engine Fire Pump	300 hp	1978
Tank 1	NA	Tank 1	Main Fuel Oil Tank	25,000 gallons	1953
Tank 2	NA	Tank 2	Main Fuel Oil Tank	25,000 gallons	1953
Tank 3	NA	Tank 3	Main Fuel Oil Tank	25,000 gallons	1953
Tank 4	NA	Tank 4	Clean Oil Tank (Lube Oil Room)	9,750 gallons	1953
Tank 5	NA	Tank 5	Dirty Oil Tank (Lube Oil Room)	9,750 gallons	1953
Tank 6	NA	Tank 6	Clean Oil Makeup Tank (Cube Oil Room)	1,000 gallons	1953
Tank 7	NA	Tank 7	U1 Main Turbine Oil Tank	6,000 gallons	1953
Tank 8	NA	Tank 8	U2 Main Turbine Oil Tank	6,000 gallons	1953
Tank 9	NA	Tank 9	Misc. Oil Storage Room Tank	2,500 gallons	1953
Tank 10	NA	Tank 10	Main Transformers Insulating Oil Tanks - Two per Unit	4,225 gallons	1953
Tank 11	NA	Tank 11	U1 HP Transformer Insulating Oil Tank	4,600 gallons	1953
Tank 12	NA	Tank 12	U2 HP Transformer Insulating Oil Tank	4,600 gallons	1953
Tank 13	NA	Tank 13	HP Spare Transformer Insulating Oil Tank	4,600 gallons	1953
Tank 14	NA	Tank 14	U1 — 101 Transformer insulating Oil Tank	4,810 gallons	1953
Tank 15	NA	Tank 15	U2 — 101 Transformer Insulating Oil Tank	4,810 gallons	1953
Tank 16	NA	Tank 16	Aux Transformers Insulating Oil Tanks - Three per Unit	1,575 gallons	1953
Tank 17	NA	Tank 17	Turbine Room Basement Aux. Transformers - Six Units	215 gallons	1953
Tank 18	NA	Tank 18	U1 - ESP Transformers Insulating Oil Tank	322 gallons	1968

Tank 19	NA	Tank 19	U2 - ESP Transformer Insulating Oil Tanks -	374 gallons	1968
Tank 20	NA	Tank 20	U 1 & 2 TR Set Insulating Oil Tanks- Twenty Four Total Transformers	152 gallons	1968
Tank 21	NA	Tank 21	Coal Tractor Shed #2 Diesel Tank	10,000 gallons	1990
Tank 22	NA	Tank 22	Coal Tractor Shed Kerosene Tank	4,000 gallons	1990
Tank 23	NA	Tank 23	Plant Gasoline Tank	2,500 gallons	1990
Tank 24	NA	Tank 24	Used Oil Tank #1	1,200 gallons	1953
Tank 25	NA	Tank 25	Used Oil Tank #2	1,200 gallons	1953
Tank 26	FE	Tank 26	Ash Contractor Diesel Fuel Tank	3,000 gallons	2002
Tank 27	NA	Tank 27	U1 Mill Gear Boxes Lube Oil Tanks - Eight per Unit	135 gallons	1953
Tank 28	NA	Tank 28	U2 Mill Gear Boxes Lube Oil Tank - Eight per Unit	135 gallons	1953
Tank 29	NA	Tank 29	U1 ID Fan Oil Tanks	220 gallons	1986
Tank 30	NA	Tank 30	U2 ID Fan Oil Tanks	220 gallons	1986
Tank 31	NA	Tank 31	U1 Generator Seal Oil Tank	1,000 gallons	1953
Tank 32	NA	Tank 32	U2 Generator Seal Oil Tank	1,000 gallons	1953
Tank 33	NA	Tank 33	Diesel Tank (Fire Pump)	200 gallons	1953
Tank 34	NA	Tank 34	CO2 Cylinder Storage Turbine Room	1,200 lbs	1953
Tank 35	NA	Tank 35	Hydrogen Cylinder Storage	55,000 cu ft	1997
Tank 36	NA	Tank 36	Nitrogen Cylinder Rack	3,000 cu ft	1953
Tank 37	NA	Tank 37	Used Oil Tank - Plant Heaters/ Two Units - Turbine Room	500 gallons	1992
Tank 38	NA	Tank 38	Used Oil Tank - Plant Heater- Machine Shop	200 gallons	1992
Tank 39	FE	Tank 39	Sodium Hydroxide, 20% Aqueous	15,000 gallons	1988

¹For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

Attachment E

Emission Unit Forms

ATTACHMENT E - Emission Unit Form			
Emission Unit Description: Steam Generator #1			
Emission unit ID number: 1S	Emission unit name: Unit 1 Main Boiler	List any control devices associated with this emission unit: ESP, LNB	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Pulverized coal-fired dry bottom boiler.			
Manufacturer: Babcock and Wilcox	Model number: RB-154	Serial number: Custom	
Construction date: N/A	Installation date: 7/16/1953 (Commercial Date)	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Nominal – 1950 mmBTU/hr This heat input value is for operation at the nominal boiler rating. Boiler design enables the boiler to be operated above the nominal rated capacity.			
Maximum Hourly Throughput: Nominal Hourly Throughput is 1,335,000 lb/hr steam.	Maximum Annual Throughput: 11,694,600,000 lbs. steam	Maximum Operating Schedule: 8760 hrs/year	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, is it? <input checked="" type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
Maximum design heat input and/or maximum horsepower rating: 2413 mmBTU/hr		Type and Btu/hr rating of burners: Nominal Boiler Rating – 1950 mmBTU/hr	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. This steam generator will burn coal and utilize fuel oil for startup/shutdown and for flame stabilization. Other materials burned include non-hazardous water treatment resins, non-hazardous metal cleaning waste, and waste oils.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Coal (including Bituminous and blended Bituminous with PRB)	1.6 lb/mmBTU SO ₂	15%	12,500 BTU/lb (max.)
Fuel Oil	1% Sulfur	Trace	148,000 BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	154.7	677.5
Nitrogen Oxides (NO _x)	1,930.4	8,455
Lead (Pb)	0.121	0.53
Particulate Matter (PM _{2.5})	29.3	128.1
Particulate Matter (PM ₁₀)	65.8	288.2
Total Particulate Matter (TSP)	97.5	427
Sulfur Dioxide (SO ₂)	3,120.0	13,666
Volatile Organic Compounds (VOC)	34.0	149
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Arsenic	0.187	0.82
Beryllium	0.445	1.95
Chromium	0.067	0.29
Cobalt	0.024	0.11
Manganese	0.125	0.55
Mercury	0.058	0.25
Nickel	0.056	0.25
Selenium	1.61	7.06
Hydrogen Chloride	410.5	1,797.8
Hydrogen Fluoride	35.6	156.0
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential emission estimates are based on a combination of regulatory limitations, use of AP-42 emission factors, and operational and engineering knowledge.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment L for recommended revisions of language to the existing Reg. 30 permit.

The following permit conditions are considered the applicable requirements for this emission unit. Where appropriate, the actual permit is attached to provide the applicable language along with the underlying rule/regulatory citation and calculation basis is provided. For existing limitations previously captured in a permit, the calculations were provided in the previous permit application(s). No changes to existing permit limits are being requested at this time.

Language for unaffected permit conditions are found in R30-03900006-2009 (included in attachment L) Conditions 4.1.2 through 4.1.9.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

See Attachment L for recommended revisions of language to the existing Reg. 30 permit

The following permit conditions are considered the applicable requirements for monitoring, testing, recordkeeping and reporting for this emission unit. Where appropriate, the actual permits are attached to provide the actual language along with the underlying rule/regulatory citation. No changes are being requested at this time.

Language for unaffected permit conditions are found in R30-03900006-2009 (included in attachment L) Conditions 4.2.1 through 4.2.10; Section 4.3; Section 4.4; and Section 4.5.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description: Steam Generator #2</i>			
Emission unit ID number: 2S	Emission unit name: Unit 2 Main Boiler	List any control devices associated with this emission unit: ESP, LNB	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Pulverized coal-fired dry bottom boiler.			
Manufacturer: Babcock and Wilcox	Model number: RB-154	Serial number: Custom	
Construction date: N/A	Installation date: 12/31/1953 (Commercial Date)	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Nominal – 1950 mmBTU/hr This heat input value is for operation at the nominal boiler rating. Boiler design enables the boiler to be operated above the nominal rated capacity.			
Maximum Hourly Throughput: Nominal Hourly Throughput is 1,335,000 lb/hr steam.	Maximum Annual Throughput: 11,694,600,000 lbs. steam	Maximum Operating Schedule: 8760 hrs/year	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, is it? <input checked="" type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
Maximum design heat input and/or maximum horsepower rating: 2413 mmBTU/hr		Type and Btu/hr rating of burners: Nominal Boiler Rating – 1950 mmBTU/hr	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. This steam generator will burn coal and utilize fuel oil for startup/shutdown and for flame stabilization. Other materials burned include non-hazardous water treatment resins, non-hazardous metal cleaning waste, and waste oils.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Coal (including Bituminous and blended Bituminous with PRB)	1.6 lb/mmBTU SO ₂	15%	12,500 BTU/lb (max.)
Fuel Oil	1% Sulfur	Trace	148,000 BTU/gal

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	154.7	677.5
Nitrogen Oxides (NO _x)	1,930.4	8,455
Lead (Pb)	0.121	0.53
Particulate Matter (PM _{2.5})	29.3	128.1
Particulate Matter (PM ₁₀)	65.8	288.2
Total Particulate Matter (TSP)	97.5	427
Sulfur Dioxide (SO ₂)	3,120.0	13,666
Volatile Organic Compounds (VOC)	34.0	149
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Arsenic	0.187	0.82
Beryllium	0.445	1.95
Chromium	0.067	0.29
Cobalt	0.024	0.11
Manganese	0.125	0.55
Mercury	0.058	0.25
Nickel	0.056	0.25
Selenium	1.61	7.06
Hydrogen Chloride	410.5	1,797.8
Hydrogen Fluoride	35.6	156.0
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential emission estimates are based on a combination of regulatory limitations, use of AP-42 emission factors, and operational and engineering knowledge.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment L for recommended revisions of language to the existing Reg. 30 permit.

The following permit conditions are considered the applicable requirements for this emission unit. Where appropriate, the actual permit is attached to provide the applicable language along with the underlying rule/regulatory citation and calculation basis is provided. For existing limitations previously captured in a permit, the calculations were provided in the previous permit application(s). No changes to existing permit limits are being requested at this time.

Language for unaffected permit conditions are found in R30-03900006-2009 (included in attachment L) Conditions 4.1.2 through 4.1.9.

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

See Attachment L for recommended revisions of language to the existing Reg. 30 permit

The following permit conditions are considered the applicable requirements for monitoring, testing, recordkeeping and reporting for this emission unit. Where appropriate, the actual permits are attached to provide the actual language along with the underlying rule/regulatory citation. No changes are being requested at this time.

Language for unaffected permit conditions are found in R30-03900006-2009 (included in attachment L) Conditions 4.2.1 through 4.2.10; Section 4.3; Section 4.4; and Section 4.5.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description: System Wide – Ash Handling System			
Emission unit ID number: 3S	Emission unit name: Ash Handling System	List any control devices associated with this emission unit: Silo vents, mechanical controls, water sprays	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): This system consists of the ash vacuum removal system, silo storage, truck loadout, and truck travel to the landfill. Bottom ash removal includes a wet transport system along with removal and disposal of the settled ash into a landfill.			
Manufacturer: Various	Model number: Custom	Serial number: N/A	
Construction date: N/A	Installation date: 1979	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Vacuum Transfer Capacity (nominal) – 20 to 70 ton/hr (Units 1-2)			
Maximum Hourly Throughput: Nominal – 79.4 ton/hr flyash	Maximum Annual Throughput: 216,799 tons flyash	Maximum Operating Schedule: 8760 hrs/year	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? __ Yes __ <input checked="" type="checkbox"/> No		If yes, is it? __ Indirect Fired __ Direct Fired	
Maximum design heat input and/or maximum horsepower rating: N/A		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.11	0.49
Particulate Matter (PM ₁₀)	0.96	4.19
Total Particulate Matter (TSP)	4.09	17.92
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Potential emissions were calculated using the path of maximum emissions the system is capable. The amount of coal estimated for daily usage was 4949.7 tpd, the typical coal burn for full load operation. No controls other than those that are inherent to the system were included in the calculations.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

The following permit conditions are considered the applicable requirements. The actual permits are attached to provide the applicable language along with the underlying rule/regulatory citation. No additional calculations are provided since the calculations are all included in the permit applications provided previously. No changes are being requested at this time.

See Permit R30-03900006-2009 Section 5.0
45 CSR 30-5.1.c – Minimizing emissions, dust suppressants

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

The following permit conditions are considered the applicable requirements for monitoring, testing, recordkeeping and reporting. The actual permits are attached to provide the applicable language along with the underlying rule/regulatory citation. No changes are being requested at this time.

See Permit R30-03900006-2009 Section 3.4.4
45 CSR 30-5.1.c Inspections and records of dust suppressants.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description: System Wide – Coal Handling System			
Emission unit ID number: 4S	Emission unit name: Coal Handling System	List any control devices associated with this emission unit: Conveyor covers, partial and full enclosures, mechanical controls, water sprays	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): This system consists of the barge unloader, chutes and conveyors, transfer stations, crushers, storage piles and silos for coal. See attached description of the coal handling system.			
Manufacturer: Various	Model number: Custom	Serial number: N/A	
Construction date: N/A	Installation date: 1953	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Conveyor Transfer Capacity (nominal) – 375 to 1,500 ton/hr.			
Maximum Hourly Throughput: Nominal – 1,500 ton/hr Coal	Maximum Annual Throughput: 2,131,656 tons coal	Maximum Operating Schedule: 8760 hrs/year	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? __ Yes __ <input checked="" type="checkbox"/> No		If yes, is it? __ Indirect Fired __ Direct Fired	
Maximum design heat input and/or maximum horsepower rating: N/A		Type and Btu/hr rating of burners: N/A	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	2.5	1.26
Particulate Matter (PM ₁₀)	16.35	7.65
Total Particulate Matter (TSP)	35.48	27.12
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Potential emissions were calculated using the path of maximum emissions the system is capable of handling. The facility may unload both barges and trucks. The maximum emissions were determined using the truck and barge unloader conveyor routings. The coal from those systems would be placed onto the storage pile then reclaimed through the reclaim hoppers then transferred to the units. The amount of coal estimated for unloading was 1,806,656 tpy and the usage was 2,131,656 tpy, the coal burn for full load operation. No controls other than those that are inherent to the system were included in the calculations.</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

The following permit conditions are considered the applicable requirements. The actual permits are attached to provide the applicable language along with the underlying rule/regulatory citation. No additional calculations are provided since the calculations are all included in the permit applications provided previously. No changes are being requested at this time.

See Permit R30-03900006-2009 Section 5.0
 45 CSR 30-5.1.c – Minimizing emissions, dust suppressants
 45 CSR 2-5 – Control of Fugitive Particulate Matter

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

The following permit conditions are considered the applicable requirements for monitoring, testing, recordkeeping and reporting. The actual permits are attached to provide the applicable language along with the underlying rule/regulatory citation. No changes are being requested at this time.

See Permit R30-03900006-2009 Section 3.4.4
 45 CSR 30-5.1.c Inspections and records of dust suppressants.
 45 CSR 2-5 – Control of Fugitive Particulate Matter

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

Attachment F

Schedule of Compliance (N/A)

Attachment G

Air Pollution Control Device Forms

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: ESP 1	List all emission units associated with this control device. Unit 1 Steam Generator	
Manufacturer: Buell	Model number: 1.2Xx54K 3331/3-3P	Installation date: ESP installed in 1968, Collection size doubled in 1977.
Type of Air Pollution Control Device:		
<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input checked="" type="checkbox"/> Dry Plate Electrostatic Precipitator	
List the pollutants for which this device is intended to control and the capture and control efficiencies.		
Pollutant	Capture Efficiency	Control Efficiency
PM	100%	99.8%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
Average Pressure Drop – 0.30 inches H ₂ O Average Gas Flow Rate – 775,000 acfm @ 325 °F Average Operating Temperature - 370 °F Design Removal Efficiency – 99.5% Design Plate Surface Area – 212,072 sq.ft.		
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
If Yes, Complete ATTACHMENT H If No, Provide justification.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Monitor Opacity as an indicator of precipitator performance. Periodic stack tests are performed to assure compliance with the mass standard.		

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: ESP 2	List all emission units associated with this control device. Unit 2 Steam Generator
---	---

Manufacturer: Buell	Model number: 1.2X54K 3331/3-3P	Installation date: The ESP installed in 1968 then doubled collection size in 1977.
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input checked="" type="checkbox"/> Dry Plate Electrostatic Precipitator	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
PM	100%	99.8%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Average Pressure Drop – 0.30 inches H₂O
 Average Gas Flow Rate – 775,000 acfm @ 325 °F
 Average Operating Temperature - 370 °F
 Design Removal Efficiency – 99.5%
 Design Plate Surface Area – 212,072 sq.ft.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Monitor Opacity as an indicator of precipitator performance. Periodic stack tests are performed to assure compliance with the mass standard.

Attachment H

Compliance Assurance Monitoring (CAM)
Forms

ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at <http://www.epa.gov/ttn/emc/cam.html>

CAM APPLICABILITY DETERMINATION

1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to EACH regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet all of the following criteria (*If No, then the remainder of this form need not be completed*): YES NO

- a. The PSEU is located at a major source that is required to obtain a Title V permit;
- b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is NOT exempt;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
 - Stratospheric Ozone Protection Requirements.
 - Acid Rain Program Requirements.
 - Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
 - An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).
- c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;
 - d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND
 - e. The PSEU is NOT an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:

RENEWAL APPLICATION. ALL PSEUs for which a CAM plan has NOT yet been approved need to be addressed in this CAM plan submittal.

INITIAL APPLICATION (submitted after 4/20/98). ONLY large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.

SIGNIFICANT MODIFICATION TO LARGE PSEUs. ONLY large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, Only address the appropriate monitoring requirements affected by the significant modification.

3) ^a BACKGROUND DATA AND INFORMATION

Complete the following table for all PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU. In order to supplement the submittal requirements specified in 40 CFR §64.4, if additional space is needed, attach and label accordingly.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	^b EMISSION LIMITATION or STANDARD	^c MONITORING REQUIREMENT
Unit 1 & 2	Coal Fired Boilers	PM	ESP	45 CSR 2-4.1.a	Monitor Opacity using COMs
EXAMPLE Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

^a If a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

^b Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

^c Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

CAM MONITORING APPROACH CRITERIA

Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for **EACH** indicator selected for **EACH** PSEU in order to meet the monitoring design criteria specified in 40 CFR §64.3 and §64.4. If more than two indicators are being selected for a PSEU or if additional space is needed, attach and label accordingly with the appropriate PSEU designation, pollutant, and indicator numbers.

4a) PSEU Designation: <i>Unit 1 & 2</i>	4b) Pollutant: <i>PM</i>	4c) ^a Indicator No. 1: <i>Opacity</i>	4d) ^a Indicator No. 2: <i>Opacity</i>
5a) GENERAL CRITERIA Describe the <u>MONITORING APPROACH</u> used to measure the indicators:		<i>Opacity data is measured and recorded by a certified continuous opacity monitoring system (COMS). The 6-minute average data is recorded and will be used to calculate block 3-hour average opacity values.</i>	<i>Opacity data is measured and recorded by a certified continuous opacity monitoring system (COMS). The 6-minute average data is recorded and will be used to calculate block 3-hour average opacity values.</i>
^b Establish the appropriate <u>INDICATOR RANGE</u> or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:		<i>Opacity data has been collected during Method 5 particulate emission testing. The plan will incorporate existing test data along with CAM Stack Testing to provide a conservative indicator range. The proposed upper threshold value of the indicator range is a 3-hour block average opacity value greater than 10% opacity.</i>	<i>Excess short duration opacity increases occurring during any calendar quarter are not to exceed 5% of the total operating time.</i>
5b) PERFORMANCE CRITERIA Provide the <u>SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA</u> , such as detector location, installation specifications, and minimum acceptable accuracy:		<i>COMs is located in stack downstream of ESP in accordance with 40 CFR Part 60, Appendix B, PS-1; COMs is operated, maintained and provides accuracy in accordance with 40 CFR 75.</i>	<i>COMs is located in stack downstream of ESP in accordance with 40 CFR Part 60, Appendix B, PS-1; COMs is operated, maintained and provides accuracy in accordance with 40 CFR 75.</i>
^c For new or modified monitoring equipment, provide <u>VERIFICATION PROCEDURES</u> , including manufacturer's recommendations, <u>TO CONFIRM THE OPERATIONAL STATUS</u> of the monitoring:		<i>N/A</i>	<i>N/A</i>
Provide <u>QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES</u> that are adequate to ensure the continuing validity of the data, (i.e., daily calibrations, visual inspections, routine maintenance, RATA, etc.):		<i>QA/QC is performed in accordance with 40 CFR 75.</i>	<i>QA/QC is performed in accordance with 40 CFR 75.</i>
^d Provide the <u>MONITORING FREQUENCY</u> :		<i>Opacity is measured continuously except for periods of monitor malfunction or downtime (e.g. QA/QC, calibration, repairs, etc.)</i>	<i>Opacity is measured continuously except for periods of monitor malfunction or downtime (e.g. QA/QC, calibration, repairs, etc.)</i>
Provide the <u>DATA COLLECTION PROCEDURES</u> that will be used:		<i>Opacity data will be collected and stored in a Data Acquisition System (DAS) on a block 3-hour average basis.</i>	<i>Opacity data will be collected and stored in a Data Acquisition System (DAS) on a block 3-hour average basis.</i>
Provide the <u>DATA AVERAGING PERIOD</u> for the purpose of determining whether an excursion or exceedance has occurred:		<i>The opacity values used to compare with the upper threshold value of the indicator range is the block 3-hour average opacity (short duration opacity increase).</i>	<i>The opacity values used to compare with the upper threshold value of the indicator range is the block 3-hour average opacity (short duration opacity increase) and the total operating time of the units.</i>

^a Describe all indicators to be monitored which satisfies 40 CFR §64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities

^b Indicator Ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. For CEMS, COMS, or PEMS, include the most recent certification test for the monitor.

^c The verification for operational status should include procedures for installation, calibration, and operation of the monitoring equipment, conducted in accordance with the manufacturer's recommendations, necessary to confirm the monitoring equipment is operational prior to the commencement of the required monitoring

^d Emission units with post-control PTE ≥ 100 percent of the amount classifying the source as a major source (i.e., Large PSEU) must collect four or more values per hour to be averaged. A reduced data collection frequency may be approved in limited circumstances. Other emission units must collect data at least once per 24 hour period

RATIONALE AND JUSTIFICATION

Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide rationale and justification for the selection of **EACH** indicator and monitoring approach and **EACH** indicator range in order to meet the submittal requirements specified in 40 CFR §64.4.

6a) PSEU Designation:
Unit 1 & 2

6b) Regulated Air Pollutant:
PM

7) **INDICATORS AND THE MONITORING APPROACH:** Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed, and the manufacturer's recommendations. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

Appalachian Power believes that the continuous opacity monitoring system (COMS) data is the most appropriate and readily available indicator for continuously evaluating the performance and operations of the electrostatic precipitator and thereby assessing compliance with the applicable particulate emission rate limitation between periodic 40 CFR Part 60, Method 5 compliance testing. Monitoring of other ESP operating parameters such as TR set voltage and current levels may be beneficial in evaluating ESP performance trends on a short term basis, however, these are not continuous nor are they direct indicators of conditions in the stack prior to release of the flue gas. For these reasons, a specific corrective action plan has been developed based upon opacity monitoring. This corrective action plan will be implemented at any time there is a short duration or a sustained duration increase in opacity above the upper threshold value of the indicator range.

Monitoring: The permittee shall monitor and maintain 6-minute opacity averages measured by a continuous opacity monitoring system, operated and maintained pursuant to 40 C.F.R. Part 75, including the minimum data requirements, in order to determine 3-hour block average opacity values. The 6-minute opacity averages shall be used to calculate 3-hour block average opacity values. The COM QA/QC procedures shall be equivalent to the applicable requirements of 40 C.F.R. Part 75. Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, but not limited to, calibration checks and required zero and span adjustments), the opacity shall be continuously monitored (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs and QA/QC activities shall not be used for purposes of 40 C.F.R. Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement. Data availability shall be at least of 50% of the operating time in the 3-hour block to satisfy the data requirements to calculate the 3-hour average opacity. The number of invalid 3-hour blocks shall not exceed 15% of the total 3-hour blocks during unit operation for a quarterly reporting period.

Recordkeeping: Records of the block 3-hour COMS opacity averages and corrective actions taken during excursions of the CAM plan indicator range shall be maintained on site and shall be made available to the Director or his duly authorized representative upon request. COMS performance data will be maintained in accordance with 40 C.F.R. Part 75 recordkeeping requirements. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 C.F.R. Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Reporting: The permittee shall submit semiannual monitoring reports to the DAQ. A report for monitoring under 40 C.F.R. 64 shall include, at a minimum, the following information: (a) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions and the corrective actions taken; (b) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks); and (c) A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the permittee shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

For purposes of this corrective action plan:

A **short duration increase in opacity** is defined as an increase in opacity that persists for at least a block three-hour period (30 consecutive 6-minute periods), and which measure greater than the upper threshold value of the indicator range.

A **sustained increase in opacity (or an excursion)** is defined as an increase in opacity that persists for two consecutive 3-hour block periods (two consecutive short duration opacity increase periods), and which measure greater than the upper threshold value of the indicator range.

This plan outlines specific corrective action procedures to be implemented by plant personnel for the following scenarios:

Case A: Upon alarm of a Short duration increase in opacity.

Case B: Upon alarm of a sustained increase in opacity.

These corrective action procedures do not apply to opacity increases that occur during exempt periods. Assignment of personnel to carry out each step of this plan will be the sole responsibility of Plant Management and may change based upon specific conditions.

Assignment of personnel to carry out each step of this plan will be the sole responsibility of Plant Management and may change based upon specific conditions.

Case A: (Short duration increase in opacity.)

Plant personnel will continue to observe the COMS data and at the same time initiate a review of other available information (such as: TR set status, voltage, current, operating parameters, etc.) in order to validate and/or identify the cause of the opacity increase.

1. If the opacity does not return to and remain at normal operating levels within 180 minutes, further corrective action may become necessary.
2. If the cause of the opacity increase is not already known, unit-operating data will be collected for the purpose of determining the cause of the opacity increase.
3. If the opacity increase occurs after normal working hours, on weekends, or holidays; the unit-operations data may be collected the following working day.
4. Once the cause of the opacity increase is determined, plant personnel will take necessary steps to mitigate the unit operating condition or equipment failure that is found to be causing the short duration opacity increase.

B. Case B: (Sustained increase in opacity.)

1. Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
2. If the opacity does not return and remain at normal operating levels within a short duration (within 180 minutes), and the cause of the opacity increase is not already known, further analysis of the unit, and auxiliary operating data will be analyzed and recorded for the purpose of determining the cause of the opacity increase.
3. If the opacity increase occurs after normal working hours, on weekends, or holidays, off-shift personnel may be required to determine the cause of the opacity increase and initiate appropriate corrective actions.
4. Plant personnel will initiate the following corrective actions as necessary to reduce stack opacity to normal operating levels:
 - a. Any individual TR sets that are out-of-service or not operating at normal power levels shall be repaired and/or adjusted as appropriate.
 - b. ESP rapping procedures may be initiated and/or adjusted as necessary.
 - c. Flue gas conditioning systems will be placed in service or adjusted as necessary.
 - d. Depending on the specific events found to be the cause of the opacity increase, other corrective actions will be implemented as necessary to reduce the opacity to normal operating levels.

If five (5) percent or greater of the block three (3) hour average COMS opacity values indicate excursions of the 10% opacity threshold during a calendar quarter, the permittee shall develop and implement a QIP. The Director may waive this QIP requirement upon a demonstration that the cause(s) of the excursions have been corrected, or may require stack tests at any time pursuant to permit condition 3.3.1.

If the opacity level continues to exceed the upper threshold value of the indicator range Opacity after the corrective actions as outlined above for Case B are implemented, plant personnel will contact appropriate management staff to obtain necessary approvals to reduce load, or in extreme cases, commence a unit shutdown in order to remediate the cause of the opacity increase.

Based on the results of a determination of actions taken by the permittee, the Administrator or the Director may require the permittee to develop and implement a QIP. If a QIP is required, then it shall be developed, implemented, and modified as required according to 40 C.F.R. §§ 64.8(b) through (e).

8) INDICATOR RANGES: Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how EACH indicator range was selected by either a COMPLIANCE OR PERFORMANCE TEST, a TEST PLAN AND SCHEDULE, or by ENGINEERING ASSESSMENTS. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall INCLUDE a summary of the compliance or performance test results that were used to determine the indicator range, and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted
- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale and justification shall INCLUDE the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practicable after approval of this CAM plan, except that in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.
- ENGINEERING ASSESSMENTS (Indicator Ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturers' design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall INCLUDE documentation demonstrating that compliance testing is not required to establish the indicator range.

Attachment I

Existing Applicable Permits



west virginia department of environmental protection
Division of Air Quality

Phase II Acid Rain Permit

Plant Name: Kanawha River Power Station		Permit #: R33-3936-2017-4A
Affected Unit(s): 1, 2		
Operator: Appalachian Power Company		ORIS Code: 3936
Effective Date	From: January 1, 2013	To: December 31, 2017

Contents:

1. Statement of Basis.
2. SO₂ allowances allocated under this permit and NO_x requirements for each affected unit.
3. Comments, notes and justifications regarding permit decisions and changes made to permit application forms during the review process, and any additional requirements or conditions.
4. The permit application forms submitted for this source, as corrected by the West Virginia Division of Air Quality. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with W. Va. Code §22-5-4(a)(16) and Titles IV and V of the Clean Air Act, the West Virginia Department of Environmental Protection, Division of Air Quality issues this permit pursuant to 45CSR33 and 45CSR30.

Permit Approval



 John A. Benedict, Director
 Division of Air Quality

May 14, 2013

 Date

West Virginia Department of Environmental Protection • Division of Air Quality

Plant Name: Kanawha River Power Station	Permit #: R33-3936-2017-4A
---	----------------------------

2. SO₂ Allocations and NO_x Requirements for each affected unit

Unit No. 1

SO ₂ Allowances	Year				
	2013	2014	2015	2016	2017
Table 2 allowances, as adjusted by 40CFR Part 73	3981	3981	3981	3981	3981
Repowering plan allowances	N/A	N/A	N/A	N/A	N/A

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO₂ allowance allocations identified in this permit (See 40 CFR §72.84).

NO _x Requirements	2013	2014	2015	2016	2017
NO _x Limit (lb/mmBtu)	0.80	0.80	0.80	0.80	0.80

Pursuant to 40 CFR §76.11, the West Virginia Department of Environmental Protection, Division of Air Quality approves five (5) NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2013, 2014, 2015, 2016 and 2017. Under each plan, the unit's NO_x emissions shall not exceed the annual alternative contemporaneous emission limitation (ACEL) of 0.80 lb/mmBtu.

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

In accordance with 40 CFR §72.40(b)(2), approval of the averaging plan shall be final only when the Arkansas Department of Environmental Quality, Air Division, Indiana Department of Environmental Management, Office of Air Quality, the Kentucky Department for Environmental Protection, Division for Air Quality, the Ohio Environmental Protection Agency, Division of Air Pollution Control the Oklahoma Department of Environmental Quality, Air Quality Division, Virginia Department of Environmental Quality, Division of Air Quality and the Texas Commission on Environmental Quality, Office of Air have also approved this averaging plan.

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

3. Comments, notes and justifications regarding decisions, and changes made to the permit application forms during the review process:

A permit modification application to include and approve a revised Phase II NO_x Averaging Plan for the years 2013, 2014, 2015, 2016 and 2017 was received on December 26, 2012. This permit modification incorporates the requested revision.

4. Permit application forms:

Attached.

West Virginia Department of Environmental Protection • Division of Air Quality

Plant Name: Kanawha River Power Station	Permit #: R33-3936-2017-4A
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2. SO₂ Allocations and NO_x Requirements for each affected unit

Unit No. 2

SO ₂ Allowances	Year				
	2013	2014	2015	2016	2017
Table 2 allowances, as adjusted by 40CFR Part 73	3545	3545	3545	3545	3545
Repowering plan allowances	N/A	N/A	N/A	N/A	N/A

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO₂ allowance allocations identified in this permit (See 40 CFR §72.84).

NO _x Requirements	2013	2014	2015	2016	2017
NO_x Limit (lb/mmBtu)	0.80	0.80	0.80	0.80	0.80

Pursuant to 40 CFR §76.11, the West Virginia Department of Environmental Protection, Division of Air Quality approves five (5) NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2013, 2014, 2015, 2016 and 2017. Under each plan, the unit's NO_x emissions shall not exceed the annual alternative contemporaneous emission limitation (ACEL) of 0.80 lb/mmBtu.

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

In accordance with 40 CFR §72.40(b)(2), approval of the averaging plan shall be final only when the Arkansas Department of Environmental Quality, Air Division, Indiana Department of Environmental Management, Office of Air Quality, the Kentucky Department for Environmental Protection, Division for Air Quality, the Ohio Environmental Protection Agency, Division of Air Pollution Control the Oklahoma Department of Environmental Quality, Air Quality Division, Virginia Department of Environmental Quality, Division of Air Quality and the Texas Commission on Environmental Quality, Office of Air have also approved this averaging plan.

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

3. Comments, notes and justifications regarding decisions, and changes made to the permit application forms during the review process:

A permit modification application to include and approve a revised Phase II NO_x Averaging Plan for the years 2013, 2014, 2015, 2016 and 2017 was received on December 26, 2012. This permit modification incorporates the requested revision.

4. Permit application forms:

Attached

Permit Requirements

STEP 3

Read the standard requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Kanawha River
Facility (Source) Name (from STEP 1)

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:

- (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
- (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:

- (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

Kanawha River

Facility (Source) Name (from STEP 1)

Recordkeeping and Reporting Requirements, Cont'd.**STEP 3, Cont'd.**

- (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

Kanawha River Facility (Source) Name (from STEP 1)
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Effect on Other Authorities, Cont'd.

STEP 3, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; *provided*, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

STEP 4
Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name John M. McManus	
Signature <i>John M. McManus</i>	Date <i>6/8/12</i>



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Phase II NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

Page **1** of **2**

This submission is: New Revised

STEP 1

Indicate plant name, State, and ORIS code from NADB, if applicable

Kanawha River	WV	3936
Plant Name	State	ORIS Code

STEP 2

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

1	2				
ID#	ID#	ID#	ID#	ID#	ID#
V	V				
Type	Type	Type	Type	Type	Type

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)

<input type="checkbox"/>					
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(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)

<input type="checkbox"/>					
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(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)

<input type="checkbox"/>					
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(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)

<input type="checkbox"/>					
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(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)

<input type="checkbox"/>					
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(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)

<input type="checkbox"/>					
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(j) NO_x Averaging Plan (Include NO_x Averaging form)

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Kanawha River
Plant Name (from Step 1)

STEP 2, cont'd.

	1	2	ID#	ID#	ID#	ID#
	ID#	ID#	ID#	ID#	ID#	ID#
	V	V	Type	Type	Type	Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(I)(C), (a)(2)(III)(B), or (b)(2)	<input type="checkbox"/>					
(n) AEL (Include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	<input type="checkbox"/>					
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	<input type="checkbox"/>					
(p) Repowering extension plan approved or under review	<input type="checkbox"/>					

STEP 3
Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

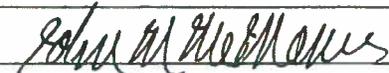
Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

John M. McManus	
Name	
	12/17/2012
Signature	Date

lele



Phase II NOx Averaging Plan

formation, see instructions and refer to 40 CFR 76.11

This submission is: New Revised

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Big Sandy	KY	BSU1	0.46	0.46	5,183,000
Big Sandy	KY	BSU2	0.46	0.46	21,378,000
Cardinal	OH	1	0.68	0.68	41,432,600
Cardinal	OH	2	0.68	0.68	38,981,200
Cardinal	OH	3	0.46	0.46	36,818,000
Clinch River	VA	1	0.80	0.80	4,056,600
Clinch River	VA	2	0.80	0.80	4,113,800
Clinch River	VA	3	0.80	0.80	237,000
see page 3					

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.54

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.54

$$\frac{\sum_{i=1}^n [R_i \times HI_i]}{\sum_{i=1}^n HI_i}$$

≤

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_i = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

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Kanawha River
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year 2013 through calendar year 2017

unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

John M. McManus	
Name	
Signature	Date
	12/17/2012

Kanawha River Plant Name (from Step 1)

NO_x Averaging - Page 3

STEP 1
Continue the
identification of
units from Step 1,
page 1, here.

Plant Name	State	ID#	Emission Limitation	(a)	(b)	(c)
					Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Conesville	OH	4	0.45		0.45	20,621,149
Conesville	OH	5	0.40		0.40	16,355,200
Conesville	OH	6	0.40		0.40	15,774,600
Flint Creek	AR	1	0.46		0.46	33,727,600
Gavin	OH	1	0.68		0.68	72,800,400
Gavin	OH	2	0.68		0.68	74,558,000
Glen Lyn	VA	51	0.40		0.40	92,500
Glen Lyn	VA	52	0.40		0.40	92,500
Glen Lyn	VA	6	0.46		0.46	413,000
H. W. Pirkey	TX	1	0.46		0.46	50,944,820
John E. Amos	WV	1	0.46		0.46	45,628,800
John E. Amos	WV	2	0.46		0.46	48,398,200
John E. Amos	WV	3	0.68		0.68	78,137,000
Kammer	WV	1	0.86		0.86	6,817,500
Kammer	WV	2	0.86		0.86	7,397,500
Kammer	WV	3	0.86		0.86	2,485,500
Kanawha River	WV	1	0.80		0.80	7,751,500
Kanawha River	WV	2	0.80		0.80	7,131,000
Mitchell	WV	1	0.50		0.50	46,424,400
Mitchell	WV	2	0.50		0.50	47,334,600
Mountaineer	WV	1	0.46		0.46	75,779,800
Muskingum River	OH	1	0.84		0.84	793,000
Muskingum River	OH	2	0.84		0.84	1,816,649
Muskingum River	OH	3	0.86		0.86	7,420,000
Muskingum River	OH	4	0.86		0.86	1,978,858
Muskingum River	OH	5	0.68		0.68	4,350,500
Northeastern	OK	3313	0.40		0.40	30,914,400

Attachment J
Permit Application -
CAIR Programs

Plant Name **Kanawha River Plant****STEP 3,
continued****(b) Monitoring, reporting and recordkeeping requirements.**

(1) The owners and operators and the CAIR designated representative, of each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO₂ source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO₂ unit (as applicable) at the source shall comply with the monitoring, reporting and recordkeeping requirements of sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable).

(2) The emissions measurements recorded and reported in accordance with sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) shall be used to determine compliance by each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO₂ source (as applicable) with the CAIR NO_x Annual emissions limitation, CAIR NO_x Ozone Season emissions limitation and CAIR SO₂ emissions limitation (as applicable) under 45CSR§39-6.3, 45CSR§40-6.3 and 45CSR§41-6.3 (as applicable).

(c) Nitrogen oxides annual emissions requirements.

(1) As of the allowance transfer deadline for the 2009 control period and each control period thereafter, the owners and operators of each CAIR NO_x Annual source and each CAIR NO_x Annual unit at the source shall hold, in the source's compliance account, CAIR NO_x Annual allowances available for compliance deductions for the control period under 45CSR§39-54.1 in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x Annual units at the source, as determined in accordance with sections 70 through 75 of 45CSR39.

(2) A CAIR NO_x Annual unit shall be subject to the requirements under 45CSR§39-6.3.a for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, or 70.2.e of 45CSR39, and for each control period thereafter.

(3) A CAIR NO_x Annual allowance shall not be deducted, for compliance with the requirements under 45CSR§39-6.3.a, for the control period in a calendar year before the year for which the CAIR NO_x Annual allowance was allocated.

(4) CAIR NO_x Annual allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with sections 50 through 62, and 80 through 88 of 45CSR39.

(5) A CAIR NO_x Annual allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§39-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO_x Annual allowance does not constitute a property right.

(7) Upon recordation by the Administrator under sections 40 through 62, and 80 through 88 of 45CSR39, every allocation, transfer, or deduction of a CAIR NO_x Annual allowance to or from a CAIR NO_x Annual source's compliance account is incorporated automatically in any CAIR permit of the source.

(d) Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for the 2009 ozone season and each ozone season thereafter, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the ozone season under 45CSR§40-54.1 in an amount not less than the tons of total nitrogen oxides emissions for the ozone season from all CAIR NO_x Ozone Season units at the source, as determined in accordance with sections 70 through 75 of 45CSR40.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under 45CSR§40-6.3.a for the ozone season starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, 70.2.c or 70.2.g of 45CSR40 and for each ozone season thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under 45CSR§40-6.3.a, for an ozone season in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with sections 50 through 62, and 80 through 88 of 45CSR40.

(5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§40-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO_x Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subdivision 43.3, sections 51 through 57, 60 through 62, and 80 through 88 of 45CSR40, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

(e) Sulfur dioxide annual emission requirements.

(1) As of the allowance transfer deadline for the 2010 control period and each control period thereafter, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO₂ allowances available for compliance deductions for the control period, as determined in accordance with subsections 54.1 and 54.2 of 45CSR§41 in an amount not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with sections 70 through 75 of 45CSR41.

(2) A CAIR SO₂ unit shall be subject to the requirements under 45CSR§41-6.3.a for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, or 70.2.e of 45CSR41 and for each control period thereafter.

(3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under 45CSR§41-6.3.a, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.

(4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with sections 51 through 62, and 80 through 88 of 45CSR41.

(5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§41-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR SO₂ allowance does not constitute a property right.

(7) Upon recordation by the Administrator under sections 51 through 57, 60 through 62, and 80 through 88 of 45CSR41, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ source's compliance account is incorporated automatically in any CAIR permit of the source.

Plant Name **Kanawha River Plant**

**STEP 3,
continued**

(f) Excess emissions requirements.

(1) If a CAIR NO_x Annual source emits nitrogen oxides during any control period in excess of the CAIR NO_x Annual emissions limitation, then:

(i) The owners and operators of the source and each CAIR NO_x Annual unit at the source shall surrender the CAIR NO_x Annual allowances required for deduction under 45CSR§39-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR39, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(2) If a CAIR NO_x Ozone Season source emits nitrogen oxides during any ozone season in excess of the CAIR NO_x Ozone Season emissions limitation, then:

(i) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under 45CSR§40-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR40, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(3) If a CAIR SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, then:

(i) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under 45CSR§41-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR41, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(g) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO₂ source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO₂ unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Secretary or the Administrator.

(i) The certificate of representation under 45CSR§39-13, 45CSR§40-13 and 45CSR§41-13 (as applicable) for the CAIR designated representative for the source and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO₂ unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 45CSR§39-13, 45CSR§40-13 and 45CSR§41-13 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable), provided that to the extent that sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO₂ Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO₂ Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO₂ Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO₂ source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO₂ unit (as applicable) at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO₂ Trading Program (as applicable) including those under sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable).

(h) Liability.

(1) Each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO₂ source (as applicable) and each NO_x unit, CAIR NO_x Ozone Season unit and CAIR SO₂ unit (as applicable) shall meet the requirements of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO₂ Trading Program (as applicable).

(2) Any provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program or CAIR SO₂ Trading Program (as applicable) that applies to a CAIR NO_x Annual source, CAIR NO_x Ozone Season source or CAIR SO₂ source (as applicable) or the CAIR designated representative of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source or CAIR SO₂ source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NO_x Annual units, CAIR NO_x Ozone Season units or CAIR SO₂ units (as applicable) at the source.

(3) Any provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program or CAIR SO₂ Trading Program (as applicable) that applies to a CAIR NO_x Annual unit, CAIR SO₂ unit or CAIR NO_x Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit or CAIR SO₂ unit (as applicable) shall also apply to the owners and operators of such unit.

(i) Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO₂ Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under 45CSR§39-5, 45CSR§40-5, or 45CSR§41-5 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO₂ source (as applicable) or CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO₂ unit (as applicable) from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Plant Name Kanawha River Plant

**STEP 3,
continued**

Certification

I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

CAIR Designated Representative John M. McManus	
Signature <i>John M. McManus</i>	Date <i>10/14/13</i>

Attachment K

45 CSR 2/10 Monitoring Plan

45 CSR 2 and 45 CSR 10 Monitoring and Recordkeeping Plan

Kanawha River Plant

Facility Information:

Facility Name: Kanawha River Plant

Facility Address: P.O. Box 110
State Route 60
Glasgow, WV 25086

Facility Environmental Contact: James Simms

A. Facility Description:

Kanawha River Plant is a coal-fired electric generating facility with two main combustion units (Units 1 and 2) discharging through a common stack (CS012). Unit 1 and Unit 2 each have a design heat input greater than 10 mmBtu/hr making both 45 CSR 2A (Interpretive Rule for 45 CSR 2) and 4 CSR 10A (Interpretive Rule for 45 CSR 10) applicable to these sources.

I. 45 CSR 2 Monitoring Plan:

In accordance with Section 8.2.a of 45 CSR 2, following is the proposed plan for monitoring compliance with opacity limits found in Section 3 of that rule:

A. Main Stack (CS012)

1. Applicable Standard:

45 CSR 2, §3.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

2. Monitoring Method(s):

45 CSR 2, §8.2.a.1. Direct measurement with a certified continuous opacity monitoring system (COMS) shall be deemed to satisfy the requirements for a monitoring plan. Such COMS shall be installed, calibrated, operated and maintained as specified in 40 CFR Part 60, Appendix B, Performance Specification 1 (PS1). COMS meeting the requirements of 40 CFR Part 75 (Acid Rain) will be deemed to have satisfied the requirements of PS1.

- a. **Primary Monitoring Method:** The primary method of monitoring opacity at Kanawha River Plant will be Continuous Opacity Monitors (COMS). The COMS are installed, maintained and operated in compliance with requirements of 40 CFR Part 75.
- b. **Other Credible Monitoring Method(s):** While Kanawha River Plant will use COMS as the primary method of monitoring opacity of the stack CS012, we are also reserving the right to use Method 9 readings or any other appropriate method that would produce credible data. These “other monitoring methods” will generally be used in the absence of COMS data or as other credible evidence used in conjunction with COMS data.

3. Recordkeeping:

a. **Operating Schedule and Quality/Quantity of Fuel Burned**

45 CSR 2A §7.1.a. *The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule, and the quality and quantity of fuel burned in each fuel burning unit as specified in paragraphs 7.1.a.1 through 7.1.a.6, as applicable.*

The applicable paragraphs for Kanawha River Plant are the following:

§7.1.a.2: *For fuel burning unit(s) which burn only distillate oil, such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a monthly basis and a BTU analysis for each shipment.*

§7.1.a.4: *For fuel burning unit(s) which burn only coal, such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a daily basis and an ash and BTU analysis for each shipment.*

§7.1.a.6: *For fuel burning unit(s) which burn a combination of fuels, the owner or operator shall comply with the applicable Recordkeeping requirements of paragraph 7.1.a.1 through 7.1.a.5 for each fuel burned.*

The date and time of each startup and shutdown of Units 1 and 2 will be maintained. The quantity of coal burned on a daily basis as well as the ash and Btu content will also be maintained. From a fuel oil perspective, the quantity of fuel oil burned on a monthly basis, as well as the Btu content will be maintained. The fuel oil analysis will generally be one that is provided by the supplier for a given shipment but in some cases, we may use independent sampling and analyses. The quantity of fuel oil burned on a monthly basis may be maintained on a facility wide basis.

b. **Record Maintenance**

45 CSR 2A §7.1.b. *Records of all required monitoring data and support information shall be maintained on-site for a period of at least five (5) years from the date of monitoring, sampling, measurement or reporting. Support information includes all calibration and maintenance records and all strip chart recordings for continuous monitoring instrumentation, and copies of all required reports.*

Records of all required monitoring data and support information will be maintained on-site for at least five (5) years. Support information includes all calibration and maintenance records and all strip chart recordings for continuous monitoring instrumentation, and copies of all required reports.

4. Exception Reporting:

a. **Particulate Mass Emissions:**

45 CSR 2A, §7.2.a. *With respect to excursions associated with measured emissions under Section 4 of 45CSR2, compliance with the reporting and testing requirements under the Appendix to 45CSR2 shall fulfill the requirement for a periodic exception report under subdivision 8.3.b. or 45CSR2.*

Kanawha River Plant will comply with the reporting and testing requirements specified under the Appendix to 45 CSR 2.

b. **Opacity:**

45 CSR 2A, §7.2.b. COMS – *In accordance with the provisions of this subdivision, each owner or operator employing COMS as the method of monitoring compliance with opacity limits shall submit a “COMS Summary Report” and/or an “Excursion and COMS Monitoring System Performance Report” to the Director on a quarterly basis; the Director may, on a case-by-case basis, require more frequent reporting if the Director deems it necessary to accurately assess the compliance status of the fuel burning unit(s). All reports shall be postmarked by the thirtieth (30th) day following the end of each calendar quarter. The COMS Summary Report shall contain the information and be in the format shown in Appendix B unless otherwise specified by the Director.*

45 CSR 2A, §7.2.b.1. *If the total duration of excursions for the reporting period is less than one percent (1%) of the total operating time for the reporting period and monitoring system downtime for the reporting period is less than five percent (5%) of the total operating time for the reporting period, the COMS Summary Report shall be submitted to the Director; the Excursion and COMS Monitoring System Performance report shall be maintained on-site and shall be submitted to the Director upon request.*

45 CSR 2A, §7.2.b.2. *If the total duration of excursions for the reporting period is one percent (1%) or greater of the total operating time for the reporting period or the total monitoring system downtime for the reporting period is five percent (5%) or*

greater of the total operating time for the reporting period, the COMS Summary Report and the Excursion and COMS Monitoring System Performance Report shall both be submitted to the Director.

45 CSR 2A, §7.2.b.3. *The Excursion and COMS Monitoring System Performance Report shall be in a format approved by the Director and shall include, but not be limited to, the following information:*

45 CSR 2A, §7.2.b.3.A. *The magnitude of each excursion, and the date and time, including starting and ending times, of each excursion.*

45 CSR 2A, §7.2.b.3.B. *Specific identification of each excursion that occurs during start-ups, shutdowns, and malfunctions of the facility.*

45 CSR 2A, §7.2.b.3.C. *The nature and cause of any excursion (if known), and the corrective action taken and preventative measures adopted (if any).*

45 CSR 2A, §7.2.b.3.D. *The date and time identifying each period during which quality- controlled monitoring data was unavailable, except for zero and span checks, and the reason for data unavailability and the nature of the repairs or adjustments to the monitoring system.*

45 CSR 2A, §7.2.b.3.E. *When no excursions have occurred or there were no periods of quality-controlled data unavailability, and no monitoring systems were inoperative, repaired, or adjusted, such information shall be stated in the report.*

Attached, as Appendices A and B are sample copies of the COMS “Summary Report” and “Excess opacity and COM downtime report” that we plan on using to fulfill the opacity reporting requirements. The COMS “Summary Report” will satisfy the conditions under 45 CSR 2A, §7.2.b for the “COMS Summary Report” and will be submitted to the Director according to its requirements. The “Excess opacity and COM downtime report” satisfies the conditions under 45 CSR 2A, §7.2.b.3. for the “Excursion and COMS Monitoring System Performance Report”. The “Excess opacity and COM downtime report” shall be submitted to the Director following the conditions outlined in 45 CSR 2A, §7.2.b.1. and §7.2.b.2.

To the extent that an excursion is due to a malfunction, the reporting requirements in section 9 of 45CSR2 shall be followed – 45 CSR 2A, §7.2.d.

II. 45 CSR 10 Monitoring Plan:

In accordance with Section 8.2.c of 45 CSR 10, following is the proposed plan for monitoring compliance with the sulfur dioxide weight emission standards expressed in Section 3 of that rule:

A. Main Stack (CS012)

1. Applicable Standard:

45 CSR 10, §3.2.b. *For fuel burning units of the Kanawha River Plant of Appalachian Power Company, located in Air Quality Control Region IV, the product of 1.6 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.*

45 CSR 10, §3.8. *Compliance with the allowable sulfur dioxide emission limitations from fuel burning units shall be based on continuous twenty-four (24) hour averaging time...A continuous twenty-four (24) hour period is defined as one (1) calendar day.*

2. Monitoring Method:

45 CSR 10, §8.2.c.1. *The installation, operation and maintenance of a continuous monitoring system meeting the requirements 40 CFR Part 60, Appendix B, Performance Specification 2 (PS2) or Performance Specification 7 (PS7) shall be deemed to fulfill the requirements of a monitoring plan for a fuel burning unit(s), manufacturing process source(s) or combustion source(s). CEMS meeting the requirements of 40 CFR Part 75 (Acid Rain) will be deemed to have satisfied the requirements of PS2.*

- a. **Primary Monitoring Method:** The primary method of monitoring SO₂ mass emissions from CS012 will be Continuous Emissions Monitors (CEMS). Data used in evaluating the performance of the Kanawha River Units with the applicable standard will be unbiased, unsubstituted data as specified in 45 CSR 10A, §6.1.b.1 We are proposing that data capture of more than 50% constitute sufficient data for the daily mass emissions to be considered valid. The CEMS are installed, maintained and operated in compliance with requirements of 40 CFR Part 75. Because Units 1 and 2 discharge through a common stack (CS012) and both are "Type a" fuel burning units as defined in 45 CSR 10, the stack limit is effectively the same as the plant-wide limit.
- b. **Other Credible Monitoring Method(s):** While Kanawha River Plant will use CEMS as the primary method of monitoring SO₂ mass emissions of the stack CS012, we are also reserving the right to use ASTM compliant fuel sampling and analysis or any other appropriate method that would produce credible data. These "other monitoring methods" will generally be used in the absence of CEMS data or as other credible evidence used in conjunction with CEMS data.

3. Recordkeeping:

a. Operating Schedule and Quality/Quantity of Fuel Burned:

45 CSR 10A, §7.1.a. *Fuel burning units - The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule and the quality or quantity of fuel burned in each unit...*

45 CSR 10A, §7.1.c. *The owner or operator of a fuel burning unit or combustion source which utilizes CEMS shall be exempt from the provisions of subdivision 7.1.a. or 7.1.b, respectively.*

As such, Kanawha River plant will not maintain records of the operating schedule and the quality and quantity of fuel burned in each unit for purposes of meeting the requirements for a monitoring plan under 45 CSR 10. While fuel sampling and analysis may continue to be performed at this facility, it is done so at the discretion of the owner/operator and is not required by this monitoring plan for the purposes of indicating compliance with SO₂ standards.

b. Record Maintenance

45 CSR 10A, §7.1.d. *For fuel burning units, manufacturing process sources, and combustion sources, records of all required monitoring data as established in an approved monitoring plan and support information shall be maintained on-site for a period of at least five (5) years from the date of monitoring, sampling, measurement or reporting. Support information includes all calibration and maintenance records and all strip chart recordings for continuous monitoring instrumentation, and copies of all required reports.*

As such, CEMS records at Kanawha River Plant will be maintained for at least five years.

4. Exception Reporting:

45 CSR 10A, §7.2.a. *CEMS - Each owner or operator employing CEMS for an approved monitoring plan, shall submit a "CEMS Summary Report" and/or a "CEMS Excursion and Monitoring System Performance Report" to the Director quarterly; the Director may, on a case-by-case basis, require more frequent reporting if the Director deems it necessary to accurately assess the compliance status of the source. All reports shall be postmarked no later than forty-five (45) days following the end of each calendar quarter. The CEMS Summary Report shall contain the information and be in the format shown in Appendix A unless otherwise specified by the Director.*

45 CSR 10A, §7.2.a.1. *Submittal of 40 CFR Part 75 data in electronic data (EDR) format to the Director shall be deemed to satisfy the requirements of subdivision 7.2.a.*

As such, Kanawha River Plant will submit the 40 CFR 75 quarterly electronic data reports (EDRs) to the OAQ to meet the requirements for a CEMS Summary Report and the CEMS Excursion and Monitoring System Performance Report. The EDR reports will be submitted to the OAQ no later than 45 days following the end of the quarter.

When no excursions of the 24 SO₂ standard have occurred, such information shall be stated in the cover letter of the EDR submittal.

Revisions of Monitoring Plan:

Kanawha River Plant reserves the right to periodically revise the conditions of this monitoring plan. Any revised plan will become effective only after approval by the OAQ.

Implementation of Monitoring Plan:

Upon approval of this monitoring plan or any subsequent revisions to the plan, it is certain that a period of time will be necessary to implement new testing, monitoring, recordkeeping or reporting commitments. While some of the commitments will be implemented immediately, others may require a significant amount of implementation work (including training of personnel) that will not necessarily be undertaken until the plan has been approved by OAQ. The reason for delaying such implementation is so that the facility can be assured that the implementation work is not being spent on a commitment that will not be approved by the OAQ. Kanawha River plant is proposing that the requirements under this initial monitoring plan be implemented during a period of 3 months (at a minimum) after approval by OAQ with the actual effective date coinciding with the start of a quarterly reporting period. However, if the final monitoring plan requires significant equipment revisions or installation of new equipment, more time may be required. In any case, we ask that the OAQ work with the Kanawha River facility to reach a workable implementation date. Likewise, Kanawha River Plant and AEP are committed to working with the OAQ on a successful implementation.

Attachment L
Suggested Title V Permit Language

West Virginia Department of Environmental Protection
Division of Air Quality

Joe Manchin, III
Governor

Randy C. Huffman
Cabinet Secretary

Permit to Operate



Pursuant to
Title V
of the Clean Air Act

Issued to:
Appalachian Power Company
Kanawha River Plant / Glasgow, WV
R30-03900006-2009

John A. Benedict
Director

Issued: May 28, 2009 • Effective: June 11, 2009
Expiration: May 28, 2014 • Renewal Application Due: November 28, 2013

Permit Number: **R30-03900006-2009**
Permittee: **Appalachian Power Company (d.b.a. American Electric Power)**
Facility Name: **Kanawha River Plant**
Permittee Mailing Address: **1 Riverside Plaza, Columbus, OH 43215-2373**

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Facility Location:	Glasgow, Kanawha County, West Virginia
Facility Mailing Address:	P.O. Box 110, Glasgow, WV 25086
Telephone Number:	(304) 595-3480
Type of Business Entity:	Corporation
Facility Description:	Electric Generation Service
SIC Codes:	Primary 4911; Secondary N/A; Tertiary N/A
UTM Coordinates:	462.96 km Easting • 4228.62 km Northing • Zone 17

Permit Writer: Denton McDerment

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.

Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.

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APPENDIX B – ~~Reserved Acid Rain Permit~~

APPENDIX C – DAQ Letter Dated September 3, 2002 regarding Thermal Decomposition of Boiler Cleaning Solution

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APPENDIX E – CAIR Permit Application

APPENDIX F – Compliance Order # CO-R37-C-2008-4

1.0 Emission Units and Active R13, R14, and R19 Permits

1.1. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed ¹	Design Capacity ²	Control Device ³
Steam Generators and Associated Equipment (1S and 2S)					
Unit 1	CS012	Boiler: Babcock & Wilcox, Model # RB-154	1953	1950 mmBtu/hr	High efficiency ESP, LNB
Unit 2	CS012	Boiler: Babcock & Wilcox, Model # RB-154	1953	1950 mmBtu/hr	High efficiency ESP, LNB
Coal & Ash Handling Equipment (4S and 3S)					
BU	BU	Barge Unloader (barge to F-I, C-I)	2008	750 TPH	MC, WS
Station I	Sta-I	BU thru F-I to C-I	1953	NA	MC, WS, PE
Feeder I	F-I	BU to C-I	1953	750 TPH	MC, PE
Conveyor I	C-I	BU to Sta-II	1953	750 TPH	MC, PE
Station II	Sta-II	C-I thru CRI, CRII, Scn-I to C-II	1953	NA	MC, FE
Crusher I	CR-I	Optional Path from C-I to C-II	1953	400 TPH	MC, FE
Crusher II	CR-II	Optional Path from C-I to C-II	1953	400 TPH	MC, FE
Screen I	Scn-I	Optional Path from C-I to C-II	1953	800 TPH	MC, FE
Conveyor II	C-II	Sta-II to CSA	1953	750 TPH	MC, PE
CSA	CSA	Coal Storage Area	1953	325,000 Tons	MC, WS
CTU	CTU	Coal Truck Unloading onto CSA	1953	Max - 200 Coal Trucks per day	MC, WS
Station III	Sta-III	CSA thru F-II, F-III, F-IV, F-V to C-III	1953	NA	MC, FE
Feeder II	F-II	CSA to C-III	1953	750 TPH	MC, FE
Feeder III	F-III	CSA to C-III	1953	750 TPH	MC, FE
Feeder IV	F-IV	CSA to C-III	1953	750 TPH	MC, FE
Feeder V	F-V	CSA to C-III	1953	750 TPH	MC, FE
Station IIIA	Sta-IIIA	CSA thru F-VI to C-III	1953	NA	MC, FE
Feeder VI	F-VI	CSA to C-III	1953	750 TPH	MC, FE
Conveyor III	C-III	CSA thru Feeders II to VI to C-IV	1953	1500 TPH	MC, PE
Station IV	Sta-IV	C-III to C-IV	1953	NA	MC, FE
Conveyor IV	C-IV	C-III to Tripper I	1953	1500 TPH	MC, FE
Tripper I	T-I	C-IV to Unit Coal Bunkers	1953	1500 TPH	MC, FE
FA Truck Bin	FA-TB	Flyash Truck Bin	1968	400 Tons	FE, VF

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed ¹	Design Capacity ²	Control Device ³
FA Silo 1	FA-S1	Flyash Storage Silo 1	1968	200 Tons	FE, VF
FA Silo 2	FA-S2	Flyash Storage Silo 2	1968	150 Tons	FE, VF
FA Silo 3	FA-S3	Flyash Storage Silo 3	1968	150 Tons	FE, VF
FA-Truck Load Out	FA-TL	Flyash load out to trucks.	NA	Max – 30 Trucks loaded per day	WS, PE
Haul Roads	HR	Roads for Coal & Flyash Transport	1952	NA	WS
Miscellaneous Other					
Pump Engine 1	PE1	Diesel Engine Fire Pump	1978	300 hp	NA
Tank 1	Tank 1	Main Fuel Oil Tank	1953	25,000 gallons	NA
Tank 2	Tank 2	Main Fuel Oil Tank	1953	25,000 gallons	NA
Tank 3	Tank 3	Main Fuel Oil Tank	1953	25,000 gallons	NA
Tank 4	Tank 4	Clean Oil Tank (Lube Oil Room)	1953	9,750 gallons	NA
Tank 5	Tank 5	Dirty Oil Tank (Lube Oil Room)	1953	9,750 gallons	NA
Tank 6	Tank 6	Clean Oil Makeup Tank (Lube Oil Room)	1953	1,000 gallons	NA
Tank 7	Tank 7	U1 Main Turbine Oil Tank	1953	6,000 gallons	NA
Tank 8	Tank 8	U2 Main Turbine Oil Tank	1953	6,000 gallons	NA
Tank 9	Tank 9	Misc. Oil Storage Room Tank	1953	2,500 gallons	NA
Tank 10	Tank 10	Main Transformers Insulating Oil Tanks - Two per Unit	1953	4,225 gallons	NA
Tank 11	Tank 11	U1 HP Transformer Insulating Oil Tank	1953	4,600 gallons	NA
Tank 12	Tank 12	U2 HP Transformer Insulating Oil Tank	1953	4,600 gallons	NA
Tank 13	Tank 13	HP Spare Transformer Insulating Oil Tank	1953	4,600 gallons	NA
Tank 14	Tank 14	U1 – 101 Transformer Insulating Oil Tank	1953	4,810 gallons	NA
Tank 15	Tank 15	U2 – 101 Transformer Insulating Oil Tank	1953	4,810 gallons	NA
Tank 16	Tank 16	Aux Transformers Insulating Oil Tanks - Three per Unit	1953	1,575 gallons	NA
Tank 17	Tank 17	Turbine Room Basement Aux. Transformers – Six Units	1953	215 gallons	NA

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed ¹	Design Capacity ²	Control Device ³
Tank 18	Tank 18	U1 - ESP Transformers Insulating Oil Tank	1968	322 gallons	NA
Tank 19	Tank 19	U2 – ESP Transformer Insulating Oil Tanks – Two Units	1968	374 gallons	NA
Tank 20	Tank 20	U1& 2 TR Set Insulating Oil Tanks– Twenty Four Total Transformers	1968	152 gallons	NA
Tank 21	Tank 21	Coal Tractor Shed #2 Diesel Tank	1990	10,000 gallons	NA
Tank 22	Tank 22	Coal Tractor Shed Kerosene Tank	1990	4,000 gallons	NA
Tank 23	Tank 23	Plant Gasoline Tank	1990	2,500 gallons	NA
Tank 24	Tank 24	Used Oil Tank #1	1953	1,200 gallons	NA
Tank 25	Tank 25	Used Oil Tank #2	1953	1,200 gallons	NA
Tank 26	Tank 26	LMS (Ash Contractor) Diesel Fuel Tank	2002	3,000 gallons	FE
Tank 27	Tank 27	U1 Mill Gear Boxes Lube Oil Tanks – Eight per Unit	1953	135 gallons	NA
Tank 28	Tank 28	U2 Mill Gear Boxes Lube Oil Tank – Eight per Unit	1953	135 gallons	NA
Tank 29	Tank 29	U1 ID Fan Oil Tanks	1986	220 gallons	NA
Tank 30	Tank 30	U2 ID Fan Oil Tanks	1986	220 gallons	NA
Tank 31	Tank 31	U1 Generator Seal Oil Tank	1953	1,000 gallons	NA
Tank 32	Tank 32	U2 Generator Seal Oil Tank	1953	1,000 gallons	NA
Tank 33	Tank 33	Diesel Tank (Fire Pump)	1953	200 gallons	NA
Tank 34	Tank 34	CO2 Cylinder Storage Turbine Room	1953	1,200 lbs	NA
Tank 35	Tank 35	Hydrogen Cylinder Storage	1997	55,000 cu ft	NA
Tank 36	Tank 36	Nitrogen Cylinder Rack	1953	3,000 cu ft	NA
Tank 37	Tank 37	Used Oil Tank – Plant Heaters/ Two Units – Turbine Room	1992	500 gallons	NA
Tank 38	Tank 38	Used Oil Tank – Plant Heater – Machine Shop	1992	200 gallons	NA
Tank 39	Tank 39	Sodium Hydroxide, 20% Aqueous	1988	15,000 gallons	FE

1 Year installed reflects the “commenced” construction or modification date as defined in 40 C.F.R. Part 60.

2 Rated design capacity

3 Control device/control system abbreviations: ESP = Electrostatic Precipitators; LNB = Low NOx System; FE = Full Enclosure; PE = Partial Enclosure; BH = Baghouse(s); MC = Moisture Content; WS = Wetting Spray; VF = Vent Filter; NA = Not applicable.

1.2. Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
<i>None for this renewal</i>	

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 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

2.2. Acronyms

CAAA	Clean Air Act Amendments	NO_x	Nitrogen Oxides
CBI	Confidential Business Information	NSPS	New Source Performance Standards
CEM	Continuous Emission Monitor	PM	Particulate Matter
CES	Certified Emission Statement	PM₁₀	Particulate Matter less than 10µm in diameter
C.F.R. or CFR	Code of Federal Regulations	pph	Pounds per Hour
CO	Carbon Monoxide	ppm	Parts per Million
C.S.R. or CSR	Codes of State Rules	PSD	Prevention of Significant Deterioration
DAQ	Division of Air Quality	psi	Pounds per Square Inch
DEP	Department of Environmental Protection	SIC	Standard Industrial Classification
FOIA	Freedom of Information Act	SIP	State Implementation Plan
HAP	Hazardous Air Pollutant	SO₂	Sulfur Dioxide
HON	Hazardous Organic NESHAP	TAP	Toxic Air Pollutant
HP	Horsepower	TPY	Tons per Year
lbs/hr or lb/hr	Pounds per Hour	TRS	Total Reduced Sulfur
LDAR	Leak Detection and Repair	TSP	Total Suspended Particulate
m	Thousand	USEPA	United States Environmental Protection Agency
MACT	Maximum Achievable Control Technology	UTM	Universal Transverse Mercator
mm	Million	VEE	Visual Emissions Evaluation
mmBtu/hr	Million British Thermal Units per Hour	VOC	Volatile Organic Compounds
mmft³/hr or mmcf/hr	Million Cubic Feet Burned per Hour		
NA or N/A	Not Applicable		
NAAQS	National Ambient Air Quality Standards		
NESHAPS	National Emissions Standards for Hazardous Air Pollutants		

2.3. Permit Expiration and Renewal

- 2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.
[45CSR§30-5.1.b.]
- 2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.
[45CSR§30-4.1.a.3.]
- 2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.
[45CSR§30-6.3.b.]
- 2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.
[45CSR§30-6.3.c.]

2.4. Permit Actions

- 2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[45CSR§30-5.1.f.3.]

2.5. Reopening for Cause

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
- Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
 - Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
 - The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]

2.6. Administrative Permit Amendments

- 2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.
[45CSR§30-6.4.]

2.7. Minor Permit Modifications

- 2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.
[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

- 2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.
[45CSR§30-6.5.b.]

2.9. Emissions Trading

- 2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.
[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
 - a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
 - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
 - c. The change shall not qualify for the permit shield.
 - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
 - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

[45CSR§30-5.9.]

2.11. Operational Flexibility

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

[45CSR§30-5.8]

- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

[45CSR§30-5.8.a.]

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

- a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
- b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

[45CSR§30-5.8.c.]

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

[45CSR§30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.

- a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
- b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
- c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

2.13. Duty to Comply

2.13.1. 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; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

2.14.1. 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.

[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
 - a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
 - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would 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.

[45CSR§30-5.1.f.2.]

2.17. Emergency

- 2.17.1. An "emergency" means any situation arising from sudden and reasonably 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.

[45CSR§30-5.7.a.]

- 2.17.2. 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 45CSR§30-5.7.c. are met.

[45CSR§30-5.7.b.]

- 2.17.3. 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. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, 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, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

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

[45CSR§30-5.7.d.]

- 2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

[45CSR§30-5.7.e.]

2.18. Federally-Enforceable Requirements

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

[45CSR§30-5.2.a.]

- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

2.19. Duty to Provide Information

- 2.19.1. 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 modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required 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.

[45CSR§30-5.1.f.5.]

2.20. Duty to Supplement and Correct Information

- 2.20.1. 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.

[45CSR§30-4.2.]

2.21. Permit Shield

2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.
[45CSR§30-5.6.a.]

2.21.2. Nothing in this permit shall alter or affect the following:

- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
- b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
- c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

2.22. Credible Evidence

2.22.1. 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 defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.
[45CSR§30-5.3.e.3.B. and 45CSR38]

2.23. Severability

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.
[45CSR§30-5.1.e.]

2.24. Property Rights

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.
[45CSR§30-5.1.f.4]

2.25. Acid Deposition Control

- 2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.
 - a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
 - b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
 - c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

[45CSR§30-5.1.a.2.]

3.0 Facility-Wide Requirements

3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person 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 or allow 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. [40 C.F.R. §61.145(b) and 45CSR34]
- 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. Reserved.
- 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 45CSR11. [45CSR§11-5.2]
- 3.1.7. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]
- 3.1.8. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

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- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

- 3.1.9. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

[40 C.F.R. 68]

- 3.1.10. Reserved.

- 3.1.11. **Fugitive Particulate Matter Control.** No person shall cause, suffer, allow, or permit any source of fugitive particulate matter to operate that is not equipped with a fugitive particulate matter control system. This system shall be operated and maintained in such a manner as to minimize the emission of fugitive particulate matter. Sources of fugitive particulate matter associated with fuel burning units shall include, but not be limited to, the following:

- a. Stockpiling of ash or fuel either in the open or in enclosures such as silos;
- b. Transport of ash in vehicles or on conveying systems, to include spillage, tracking, or blowing of particulate matter from or by such vehicles or equipment; and
- c. Ash or fuel handling systems and ash disposal areas.

[45CSR§2-5]

- 3.1.12. **CAMR Mercury Budget Trading Program (Unit 1 & Unit 2).** The owners and operators of each Hg Budget source required to have a Title V operating permit and each Hg Budget unit required to have a Title V operating permit at the source must have a Hg Budget permit issued by the Secretary under 45CSR§37-20 through 45CSR§37-24 for the source and operate the source and the unit in compliance with such Hg Budget permit. For each Hg Budget source required to have a Title V operating permit, such permit must include a Hg Budget permit administered by the Secretary. The Hg Budget portion of the Title V permit will be administered in accordance with 45CSR30, except as provided otherwise by 45CSR§37-20 through 45CSR§37-24. **[45CSR§§37-6.1.b. and 20.1.]**

- a. **Duty to apply.** -- The Hg designated representative of any Hg Budget source required to have a Title V operating permit must submit to the Secretary a complete Hg Budget permit application under 45CSR§37-22 for the source covering each Hg Budget unit at the source at least 18 months (or such lesser time provided by the Secretary) before the later of January 1, 2010 or the date on which the Hg Budget unit commences operation.

[45CSR§37-21.1.]

- b. **Duty to reapply.** -- For a Hg Budget source required to have a Title V operating permit, the Hg designated representative must submit a complete Hg Budget permit application under 45CSR§37-22 for the source covering each Hg Budget unit at the source to renew the Hg Budget permit in accordance with the Title V provisions addressing permit renewal.

[45CSR§37-21.2.]

c. A complete Hg Budget permit application must include the following elements concerning the Hg Budget source for which the application is submitted, in a format prescribed by the Secretary:

- c.1. Identification of the Hg Budget source;
- c.2. Identification of each Hg Budget unit at the Hg Budget source; and
- c.3. The standard requirements under 45CSR§37-6.
- c.4. A copy of the certificate of representation submitted to the Administrator in accordance with 45CSR§37-13.

[45CSR§37-22.1.]

d. Each Hg Budget permit is deemed to incorporate automatically the definitions of terms under 45CSR§37-2 and, upon recordation by the Administrator under 45CSR§37-51 through 45CSR§37-62, every allocation, transfer or deduction of a Hg allowance to or from the compliance account of the Hg Budget source covered by the permit

[45CSR§37-23.2.]

e. Except as provided in 45CSR§37-23.2, the Secretary will revise the Hg Budget permit, as necessary, in accordance with the provisions of 45CSR 30 addressing permit revisions.

[45CSR§37-24.1.]

The DAQ Director concluded in Compliance Order #CO-R37-C-2008-4 (Appendix F of this permit) that the only 45CSR37 requirement applicable after the Federal CAMR program was vacated was to obtain a Hg budget permit, which is contained in Section 21 of the rule (cf. FINDINGS OF FACT, Item #12, in Appendix F). Refer to Compliance Order # CO-R37-C-2008-4, which holds the requirements of 45CSR37, Section 21, in abeyance pending resolution of the ongoing CAMR litigation or final action is taken by the State to revoke this order or to repeal, revise, or replace 45CSR37.

3.1.13. **CAIR NO_x Annual Trading Program (Unit 1 & Unit 2).** The owners and operators of each CAIR NO_x Annual source required to have a Title V operating permit and each CAIR NO_x Annual unit required to have a Title V operating permit at the source will have a CAIR permit issued by the Secretary under 45CSR§39-20 through 45CSR§39-24 for the source and operate the source and the unit in compliance with such CAIR permit.

For each CAIR NO_x Annual source required to have a Title V operating permit, such permit must include a CAIR permit administered by the Secretary for the Title V operating permit. The CAIR portion of the Title V operating permit will be administered in accordance with 45CSR30 and any other applicable rule, except as provided otherwise by 45CSR§39-5 and 45CSR§39-20 through 45CSR§39-24.

[45CSR§39-6.1.b. and 20.1.]

a. Duty to apply. -- The CAIR designated representative of any CAIR NO_x Annual source required to have a Title V operating permit will submit to the Secretary a complete CAIR permit application under 45CSR§39-22 for the source covering each CAIR NO_x Annual unit at the source at least 18 months (or such lesser time provided by the Secretary) before the later of January 1, 2009 or the date on which the CAIR NO_x Annual unit commences operation.

[45CSR§39-21.1.]

b. Duty to reapply. -- For a CAIR NO_x Annual source required to have a Title V operating permit, the CAIR designated representative will submit a complete CAIR permit application under 45CSR§39-22 for the source covering each CAIR NO_x Annual unit at the source to renew the CAIR permit in accordance with 45CSR30. **[45CSR§39-21.2.]**

c. A complete CAIR permit application will include the following elements concerning the CAIR NO_x Annual source for which the application is submitted, in a format prescribed by the Secretary:

- c.1. Identification of the CAIR NO_x Annual source;
- c.2. Identification of each CAIR NO_x Annual unit at the CAIR NO_x Annual source;
- c.3. The standard requirements under section 45CSR§39-6; and
- c.4. A copy of the complete certificate of representation under 45CSR§39-13.

[45CSR§39-22.1.]

d. Each CAIR permit is deemed to incorporate automatically the definitions of terms under 45CSR§39-2 and, upon recordation by the Administrator under 45CSR§39-51 through 45CSR§39-57, 45CSR§39-60 through 45CSR§39-62, every allocation, transfer, or deduction of a CAIR NO_x Annual allowance to or from the compliance account of the CAIR NO_x Annual source covered by the permit.

[45CSR§39-23.2.]

e. Except as provided in 45CSR§39-23.2, the Secretary will revise the CAIR permit, as necessary, in accordance with 45CSR30 or any other applicable rule addressing permit revisions.

[45CSR§39-24.1.]

3.1.14. **CAIR NO_x Ozone Season Trading Program (Unit 1 & Unit 2).** The owners and operators of each CAIR NO_x Ozone Season source required to have a Title V operating permit and each CAIR NO_x Ozone Season unit required to have a Title V operating permit at the source will have a CAIR permit issued by the Secretary under 45CSR§40-20 through 45CSR§40-24 for the source and operate the source and the unit in compliance with such CAIR permit. For each CAIR NO_x Ozone Season source required to have a Title V operating permit, such permit must include a CAIR permit administered by the Secretary for the Title V operating permit. The CAIR portion of the Title V operating permit will be administered in accordance with 45CSR30 and any other applicable rule, except as provided otherwise by 45CSR§40-5 and 45CSR§40-20 through 45CSR§40-24.

[45CSR§§40-6.1.b. and 20.1.]

a. Duty to apply. -- The CAIR designated representative of any CAIR NO_x Ozone Season source required to have a Title V operating permit will submit to the Secretary a complete CAIR permit application under 45CSR§40-22 for the source covering each CAIR NO_x Ozone Season unit at the source at least 18 months (or such lesser time provided by the Secretary) before the later of January 1, 2009 or the date on which the CAIR NO_x Ozone Season unit commences operation

[45CSR§40-21.1.]

b. Duty to reapply. -- For a CAIR NO_x Ozone Season source required to have a Title V operating permit, the CAIR designated representative will submit a complete CAIR permit application under 45CSR§40-22 for the source covering each CAIR NO_x Ozone Season unit at the source to renew the CAIR permit in accordance with 45CSR30.

[45CSR§40-21.2.]

c. A complete CAIR permit application will include the following elements concerning the CAIR NO_x Ozone Season source for which the application is submitted, in a format prescribed by the Secretary:

- c.1. Identification of the CAIR NO_x Ozone Season source;
- c.2. Identification of each CAIR NO_x Ozone Season unit at the CAIR NO_x Ozone Season source;

- c.3. The standard requirements under section 45CSR§40-6; and
- c.4. A copy of the complete certificate of representation submitted to the Administrator under subsection 45CSR§40-10.3.

[45CSR§40-22.1.]

d. Each CAIR permit is deemed to incorporate automatically the definitions of terms under 45CSR§40-2 and, upon recordation by the Administrator under 45CSR§40-51 through 45CSR§40-57, 45CSR§40-60 through 45CSR§40-62, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from the compliance account of the CAIR NO_x Ozone Season source covered by the permit.

[45CSR§40-23.2.]

e. Except as provided in 45CSR§40-23.2, the Secretary will revise the CAIR permit, as necessary, in accordance with 45CSR30 or any other applicable rule addressing permit revisions.

[45CSR§40-24.1]

- 3.1.15. **CAIR SO₂ Trading Program (Unit 1 & Unit 2).** The owners and operators of each CAIR SO₂ source required to have a Title V operating permit and each CAIR SO₂ unit required to have a Title V operating permit at the source will have a CAIR permit issued by the Secretary under 45CSR§41-20 through 45CSR§41-24 for the source and operate the source and the unit in compliance with such CAIR permit. For each CAIR SO₂ source required to have a Title V operating permit, such permit must include a CAIR permit administered by the Secretary for the Title V operating permit. The CAIR portion of the Title V operating permit will be administered in accordance with 45CSR30 and any other applicable rule, except as provided otherwise by 45CSR§41-5 and 45CSR§41-20 through 45CSR§41-24

[45CSR§§41-6.1.b. and 20.1.]

a. Duty to apply. -- The CAIR designated representative of any CAIR SO₂ source required to have a Title V operating permit will submit to the Secretary a complete CAIR permit application under 45CSR§41-22 for the source covering each CAIR SO₂ unit at the source at least 18 months (or such lesser time provided by the Secretary) before the later of January 1, 2010 or the date on which the CAIR SO₂ unit commences operation.

[45CSR§41-21.1.]

b. Duty to reapply. -- For a CAIR SO₂ source required to have a Title V operating permit, the CAIR designated representative will submit a complete CAIR permit application under 45CSR§41-22 for the source covering each CAIR SO₂ unit at the source to renew the CAIR permit in accordance with 45CSR30.

[45CSR§41-21.2.]

c. A complete CAIR permit application will include the following elements concerning the CAIR SO₂ source for which the application is submitted, in a format prescribed by the Secretary:

- c.1. Identification of the CAIR SO₂ source;
- c.2. Identification of each CAIR SO₂ unit at the CAIR SO₂ source;
- c.3. The standard requirements under 45CSR§41-6; and
- c.4. A copy of the complete certificate of representation under 45CSR§41-13.

[45CSR§41-22.1.]

d. Each CAIR permit is deemed to incorporate automatically the definitions of terms under 45CSR§41-2 and, upon recordation by the Administrator under 45CSR§41-51 through 45CSR§41-57, 45CSR§41-60 through 45CSR§41-62, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from the compliance account of the CAIR SO₂ source covered by the permit.
[45CSR§41-23.2.]

e. Except as provided in 45CSR§41-23.2, the Secretary will revise the CAIR permit, as necessary, in accordance with 45CSR30 or any other applicable rule addressing permit revisions.
[45CSR§41-24.1.]

3.2. Monitoring Requirements

3.2.1. 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, if applicable, in accordance with the Secretary’s delegated authority and any established equivalency determination methods which are 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.
- 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.

[WV Code § 22-5-4(a)(15) and 45CSR13]

3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** 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.

[45CSR§30-5.1.c.2.A.]

- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

[45CSR§30-5.1.c.2.B.]

- 3.4.3. **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§30-5.1.c. State-Enforceable only.]

- 3.4.4. 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 also inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly 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.

[45CSR§30-5.1.c.]

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.

[45CSR§§30-4.4. and 5.1.c.3.D.]

- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31. **[45CSR§30-5.1.c.3.E.]**
- 3.5.3. 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, mailed first class or by private carrier 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:

If to the US EPA:

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

 Phone: 304/926-0475
 FAX: 304/926-0478

Associate Director
 Office of Enforcement and Permits Review
 (3AP12)
 U. S. Environmental Protection Agency
 Region III
 1650 Arch Street
 Philadelphia, PA 19103-2029

- 3.5.4. **Certified emissions statement.** 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. **[45CSR§30-8.]**
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. **[45CSR§30-5.3.e.]**
- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. **[45CSR§30-5.1.c.3.A.]**
- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

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3.5.8. Deviations.

- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
 1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
 2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
 3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
 4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

- b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

- 3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.

[45CSR§30-4.3.h.1.B.]

3.6. Compliance Plan

- 3.6.1. There is no compliance plan since a responsible official certified compliance with all applicable requirements in the Title V renewal application.

3.7. Permit Shield

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.
- a. 45CSR1 – *NO_x Budget Trading Program As A Means Of Control And Reduction Of Nitrogen Oxides From Non-Electric Generating Units*: The Kanawha River Plant does not have any fossil fuel-fired “Non-Electric Generating Units” as defined in 45CSR§1-4.1.b. Furthermore, this rule will be repealed as of May 1, 2009.
 - b. 45CSR5 – *To Prevent And Control Air Pollution From The Operation Of Coal Preparation Plants, Coal Handling Operations And Coal Refuse Disposal Areas*: The Kanawha River Plant is subject to the requirements of 45CSR2 and is therefore exempt from the provisions of 45CSR5 as outlined in 45CSR§§5-2.4.b. and 2.14.
 - c. 45CSR17 – *To Prevent And Control Particulate Matter Air Pollution From Materials Handling, Preparation, Storage And Other Sources Of Fugitive Particulate Matter*: The Kanawha River Plant is subject to the fugitive particulate matter emission requirements of 45CSR2 and is therefore exempt from the provisions of 45CSR17 as outlined in 45CSR§17-6.1.
 - d. 40 C.F.R. 60 Subpart D – *Standards of Performance for Fossil-Fuel-Fired Steam Generators for which Construction is Commenced After August 17, 1971*: Kanawha River’s steam generators commenced construction prior to 1971.
 - e. 40 C.F.R. 60 Subpart Da – *Standards of Performance for Electric Utility Steam Generating Units for which Construction is Commenced After September 18, 1978*: Kanawha River’s steam generators commenced construction prior to September 18, 1978.
 - f. 40 C.F.R. 60 Subpart K – *Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior May 18, 1978*: The facility does not include storage vessels that are used to store petroleum liquids (as defined in 40 C.F.R. §60.111(b)) and that have a storage capacity greater than 40,000 gallons for which construction, reconstruction or modification was commenced after June 11, 1973 and prior to May 19, 1978.
 - g. 40 C.F.R. 60 Subpart Ka – *Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978 and Prior to July 23, 1984*: The facility does not include storage vessels that are used to store petroleum liquids (as defined in 40 C.F.R. §60.111a(b)) and that have a storage capacity greater than 40,000 gallons for which construction, reconstruction or modification was commenced after May 18, 1978 and prior to July 23, 1984.
 - h. 40 C.F.R. 60 Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984*: Storage vessels potentially affected by this rule are exempted because they contain liquids with a maximum true vapor pressure of less than 3.5 kPa, have a storage capacity of less than 75 cubic meters, or have not commenced construction, reconstruction or modification after July 23, 1984.
 - i. 40 C.F.R. 60 Subpart Y – *Standards of Performance for Coal Preparation Plants*: The coal handling equipment potentially affected by this rule has not been constructed or modified after October 24, 1974.

- j. 40 C.F.R. 63 Subpart Q – *National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers*: The facility does not include industrial process cooling towers that have operated with chromium-based water treatment chemicals on or after September 8, 1994.
- k. 40 C.F.R. 63 Subpart ZZZZ – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*: The diesel fire pump (Em. Unit ID Pump Engine 1; Em. Pt. ID PEI) at this facility is considered an existing compression ignition RICE and is not subject to the requirements of this subpart per 40 C.F.R. §63.6590(b)(3).
- l. 45CSR7 – *To Prevent and Control Particulate Matter Air Pollution from Manufacturing Processes and Associated Operations*: Since the facility is subject to 45CSR2, 45CSR§7-10.1. provides an exemption from 45CSR7.

4.0 Source-Specific Requirements [Unit 1 and Unit 2 Steam Generators – Emission point ID: CS012]

4.1. Limitations and Standards

4.1.1. Emergency Operating Scenarios

a. In the event of an unavoidable shortage of fuel having characteristics or specifications necessary to comply with the visible emission requirements or any emergency situation or condition creating a threat to public safety or welfare, the Secretary may grant an exemption to the otherwise applicable visible emission standards for a period not to exceed fifteen (15) days, provided that visible emissions during that period do not exceed a maximum six (6) minute average of thirty (30) percent and that a reasonable demonstration is made by the owner or operator that the weight emission requirements will not be exceeded during the exemption period.

[45CSR§2-10.1.]

b. Due to unavoidable malfunction of equipment or inadvertent fuel shortages, SO₂ emissions from the boilers exceeding those provided for in 45CSR§10-3.2.b. (condition 4.1.8.) may be permitted by the Secretary for periods not to exceed ten (10) days upon specific application to the Secretary. Such application shall be made within twenty-four (24) hours of the equipment malfunction or fuel shortage. In cases of major equipment failure or extended shortages of conforming fuels, additional time periods may be granted by the Secretary, provided a corrective program has been submitted by the owner or operator and approved by the Secretary.

[45CSR§10-9.1.]

4.1.2. **Thermal Decomposition of Boiler Cleaning Solutions.** The thermal decomposition of boiler cleaning solutions is permitted in accordance with the WVDAQ letter dated September 3, 2002 addressed to Mr. Greg Wooten and signed by Jesse D. Adkins and subject to the DAQ notification requirements as outlined in the document titled “American Electric Power Boiler Chemical Cleaning Process Evaporation Notification Procedure.” Records pertaining to the thermal decomposition of boiler cleaning solutions shall be kept in accordance with condition 3.4.2. and shall be made available, in a suitable form for inspection, to the Secretary upon request. Refer to Appendix C.

[WVDAQ Letter dated September 3, 2002 addressed to Mr. Greg Wooten and signed by Jesse D. Adkins - State-Enforceable only; 45CSR§30-5.1.c.]

4.1.3. **Combustion of Demineralizer Resins.** The combustion of demineralizer resins is permitted in accordance with the WVDAQ letter dated January 21, 2004 addressed to Mr. Frank Blake and signed by Jesse D. Adkins and subject to the DAQ notification requirements as outlined in the document titled “American Electric Power Demineralizer Resin Burn Notification Procedure.” Records pertaining to the combustion of demineralizer resins shall be kept in accordance with condition 3.4.2. and shall be made available, in a suitable form for inspection, to the Secretary upon request. Refer to Appendix D.

[WVDAQ Letter dated January 21, 2004 addressed to Mr. Frank Blake and signed by Jesse D. Adkins - State-Enforceable only; 45CSR§30-5.1.c.]

4.1.4. Any fuel burning unit(s) including associated air pollution control equipment, shall at all times, including periods of start-up, shutdowns, and malfunctions, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions.

[45CSR§2-9.2.]

- 4.1.5. Visible emissions from Unit 1 & 2 stack (CS012) shall not exceed ten (10) percent opacity based on a six minute block average.
[45CSR§2-3.1.]
- 4.1.6. The visible emission standards in condition 4.1.5. shall apply at all times except in periods of start-ups, shutdowns and malfunctions.
[45CSR§2-9.1.]
- 4.1.7. Particulate matter emissions from Unit 1 & 2 stack (CS012) shall not exceed 195.0 lb/hr. The averaging time shall be as outlined in 45CSR2 Appendix §§ 4.1.b. and 4.1.c.
[45CSR§2-4.1.a., 45CSR2-Appendix §§ 4.1.b. & 4.1.c.]
- 4.1.8. Sulfur dioxide emissions from Unit 1 & 2 stack (CS012) shall not exceed 6,240.0 lb/hr.
[45CSR§§10-3.2. and 3.2.b.]
- 4.1.9. Compliance with the allowable sulfur dioxide emission limitation from the Unit 1 & 2 boilers shall be based on a continuous twenty-four (24) hour averaging time. Emissions shall not be allowed to exceed the weight emissions standards for sulfur dioxide as set forth in 45CSR10, except during one (1) continuous twenty-four (24) hour period in each calendar month. During this one (1) continuous twenty-four hour period, emissions shall not be allowed to exceed such weight emission standards by more than ten percent (10%) without causing a violation of 45CSR10. A continuous twenty-four (24) hour period is defined as one (1) calendar day.
[45CSR§10-3.8.]

4.2. Monitoring Requirements

- 4.2.1. Compliance with the visible emission requirements for CS012 shall be determined as outlined in section I.A.2. of the DAQ approved “45CSR2 Monitoring Plan” attached in Appendix A of this permit.
[45CSR§§2-3.2., 8.1.a & 8.2., 45CSR§2A-6]
- 4.2.2. The owner or operator shall install, calibrate, certify, operate, and maintain continuous monitoring systems that measure opacity and all SO₂, and NO_x, emissions from emission point CS012 as specified in 40 C.F.R. Part 75 and measure CO₂ emissions from emission point CS012 as specified in 40 C.F.R. Part 75.
[45CSR33; 40 C.F.R. §75.10; 40 C.F.R. §§ 64.3(b)(1) and 64.3(b)(4)(ii); 45CSR§30-5.1.c.]
- 4.2.3. Compliance with the operating and fuel usage requirements for Units 1 & 2 shall be demonstrated as outlined in section I.A.3. of the DAQ approved “45CSR2 Monitoring Plan” attached in Appendix A of this permit.
[45CSR§§2-8.3.c., 8.4.a. & 8.4.a.1.]
- 4.2.4. The owner or operator shall implement a Compliance Assurance Monitoring program in accordance with the following:
 - a. The permittee shall monitor and maintain 6-minute opacity averages measured by a continuous opacity monitoring system, operated and maintained pursuant to 40 C.F.R. Part 75, including the minimum data requirements, in order to determine 3-hour block average opacity values. The permittee may also use COMS that satisfy Section 51.214 and appendix P of Part 51, or Section 60.13 and appendix B of Part 60, to satisfy the general design criteria under 40 C.F.R. §§64.3(a) and (b).
[45CSR§30-5.1.c.; 40 C.F.R. § 64.6(c)(1)(i) and (ii)]

b. The COM QA/QC procedures shall be equivalent to the applicable requirements of 40 C.F.R. Part 75. The permittee may also use COMS that satisfy Section 51.214 and appendix P of Part 51, or Section 60.13 and appendix B of Part 60, to satisfy the general design criteria under 40 C.F.R. §§64.3(a) and (b).
[40 C.F.R. §75.21; 40 C.F.R. § 64.6(c)(iii); 45CSR§30-5.1.c.]

c. The 6-minute opacity averages from permit condition 4.2.4.(a) shall be used to calculate 3-hour block average opacity values. Data recorded during monitoring malfunctions, associated repairs and QA/QC activities shall not be used for calculating the 3-hour averages. All other available qualified data consisting of 6-minute opacity averages will be used to calculate a 3-hour average. Data availability shall be at least 50% of the operating time in the 3-hour block to satisfy the data requirements to calculate the 3-hour average opacity. However, the number of invalid 3-hour blocks shall not exceed 15% of the total 3-hour blocks during unit operation for a quarterly reporting period.

An excursion of the indicator range shall be defined as two consecutive 3-hour block average opacity values that exceed 10%.

[45CSR§30-5.1.c.; 40 C.F.R. § 64.6(c)(2) and (4); 40 C.F.R. § 64.7(c)]

4.2.5. The CAM-related testing and CAM plan implementation shall be conducted according to the following schedule:

- a. The permittee shall submit a CAM testing protocol to the Department at least 30 days prior to the proposed testing date.
- b. A test report, presenting testing results, shall be submitted to the Director within 60 days after completion of testing.
- c. The permittee shall complete the CAM testing and implement the CAM monitoring within 180 days of the issuance of this permit.

[45CSR§30-5.1.c.; 40 C.F.R. §§ 64.6(d) and 64.7(a)]

4.2.6. **Proper Maintenance.** The permittee shall maintain monitoring at all times, including maintaining necessary spare parts for routine repairs of the monitoring equipment.

[45CSR§30-5.1.c.; 40 C.F.R. § 64.7(b)]

4.2.7. **Response to Excursions or Exceedances**

- a. Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

- b. Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

[40 C.F.R. § 64.7(d); 45CSR§30-5.1.c.]

- 4.2.8. **Documentation of Need for Improved Monitoring** – After approval of monitoring under 40 C.F.R. Part 64, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing (permit condition 4.3.2.) document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[40 C.F.R. § 64.7(e); 45CSR§30-5.1.c.]

- 4.2.9. **Quality Improvement Plan (QIP)**

- (1) Based on the results of a determination made under permit condition 4.2.7.b. or 4.2.9.(2), the Administrator or the Director may require the permittee to develop and implement a QIP. If a QIP is required, then it shall be developed, implemented, and modified as required according to 40 C.F.R. §§ 64.8(b) through (e). Refer to permit condition 4.5.6.(b)(iii) for the reporting required when a QIP is implemented.
- (2) If five (5) percent or greater of the three (3) hour average COMS opacity values, determined in accordance with 4.2.4.c. of this permit, indicate excursions of the 10% opacity threshold during a calendar quarter, the permittee shall develop and implement a QIP. The Director may waive this QIP requirement upon a demonstration that the cause(s) of the excursions have been corrected, or may require stack tests at any time pursuant to permit condition 3.3.1.

[40 C.F.R. §§ 64.8 and 64.7(d); 45CSR§30-5.1.c.]

- 4.2.10. **Continued operation.** Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

[40 C.F.R. § 64.7(c); 45CSR§30-5.1.c.]

4.3. Testing Requirements

4.3.1. The owner or operator shall conduct, or have conducted, tests to determine the compliance of Unit 1 & Unit 2 with the particulate matter mass emission limitations. Such tests shall be conducted in accordance with the appropriate method set forth in 45CSR2 Appendix - Compliance Test Procedures for 45CSR2 or other equivalent EPA approved method approved by the Secretary. Such tests shall be conducted in accordance with the schedule set forth in the following table. A retest was completed on March 12, 2009 and resulted in mass emission rates $\leq 50\%$ of the weight emission standard. Therefore, the current testing frequency is "Once/3 years." Subsequent testing shall be based on the schedule below.

Test	Test Results	Retesting Frequency
Annual	after three successive tests indicate mass emission rates $\leq 50\%$ of weight emission standard	Once/3 years
Annual	after two successive tests indicate mass emission rates $< 80\%$ of weight emission standard	Once/2 years
Annual	any tests indicates a mass emission rate $\geq 80\%$ of weight emission standard	Annual
Once/2 years	after two successive tests indicate mass emission rates $\leq 50\%$ of weight emission standard	Once/3 years
Once/2 years	any tests indicates a mass emission rate $< 80\%$ of weight emission standard	Once/2 years
Once/2 years	any tests indicates a mass emission rate $\geq 80\%$ of weight emission standard	Annual
Once/3 years	any tests indicates a mass emission rate $\leq 50\%$ of weight emission standard	Once/3 years
Once/3 years	any test indicates mass emission rates between 50% and 80 % of weight emission standard	Once/2 years
Once/3 years	any test indicates a mass emission rate $\geq 80\%$ of weight emission standard	Annual

[45CSR§2-8.1., 45CSR§2A-5.2.]

4.3.2. Data collected during future periodic 45CSR2 mass emissions tests (under permit condition 4.3.1.) will be used to supplement the existing data set in order to verify the continuing appropriateness of the 10% indicator range value.

[45CSR§30-5.1.c. and 40 C.F.R. § 64.6(b)]

4.4. Recordkeeping Requirements

4.4.1. Records of monitored data established in the monitoring plan (see Appendix A) shall be maintained on site and shall be made available to the Secretary or his duly authorized representative upon request.

[45CSR§2-8.3.a.]

4.4.2. Records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit, shall be maintained on-site in a manner to be established by the Secretary and made available to the Secretary or his duly authorized representative upon request.

[45CSR§2-8.3.c.]

4.4.3. Records of the block 3-hour COMS opacity averages and corrective actions taken during excursions of the CAM plan indicator range shall be maintained on site and shall be made available to the Director or his duly authorized representative upon request. COMS performance data will be maintained in accordance with 40 C.F.R. Part 75 recordkeeping requirements.

[45CSR§30-5.1.c.; 40 C.F.R. §64.9(b)]

4.4.4. **General recordkeeping requirements for 40 C.F.R. Part 64 (CAM)**

The permittee shall comply with the recordkeeping requirements specified in permit conditions 3.4.1. and 3.4.2. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 (condition 4.2.9.) and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 C.F.R. Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

[40 C.F.R. § 64.9(b); 45CSR§30-5.1.c.]

4.5. Reporting Requirements

4.5.1. The designated representative shall electronically report SO₂, NO_x, and CO₂ emissions data and information as specified in 40 C.F.R. § 75.64 to the Administrator of USEPA, quarterly. Each electronic report must be submitted within thirty (30) days following the end of each calendar quarter.

[45CSR33; 40 C.F.R. § 75.64]

4.5.2. A periodic exception report shall be submitted to the Secretary, in a manner and at a frequency to be established by the Secretary. Compliance with this periodic exception reporting requirement shall be demonstrated as outlined in sections I.A.4. and II.A.4. of the DAQ approved "45CSR2 and 45CSR10 Monitoring Plan" attached in Appendix A of this permit.

[45CSR§2-8.3.b.; 45CSR§10-8.3.b.]

4.5.3. Excess opacity periods resulting from any malfunction of Unit 1 or Unit 2 or their air pollution control equipment, meeting the following conditions, may be reported on a quarterly basis unless otherwise required by the Secretary:

a. The excess opacity period does not exceed thirty (30) minutes within any twenty-four (24) hour period; and

b. Excess opacity does not exceed forty percent (40%).

[45CSR§2-9.3.a.]

- 4.5.4. Except as provided in permit condition 4.5.3. above, the owner or operator shall report to the Secretary by telephone, telefax, or e-mail any malfunction of Unit 1 or Unit 2 or their associated air pollution control equipment, which results in any excess particulate matter or excess opacity, by the end of the next business day after becoming aware of such condition. The owner or operator shall file a certified written report concerning the malfunction with the Secretary within thirty (30) days providing the following information:
- a. A detailed explanation of the factors involved or causes of the malfunction;
 - b. The date, and time of duration (with starting and ending times) of the period of excess emissions;
 - c. An estimate of the mass of excess emissions discharged during the malfunction period;
 - d. The maximum opacity measured or observed during the malfunction;
 - e. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and
 - f. A detailed explanation of the corrective measures or program that will be implemented to prevent a recurrence of the malfunction and a schedule for such implementation.

[45CSR§2-9.3.b.]

- 4.5.5. Unit 1 & Unit 2 are Phase II Acid Rain affected units under 45CSR33, as defined by 40 C.F.R § 72.6, and as such are required to meet the requirements of 40 C.F.R. Parts 72, 73, 74, 75, 76, 77 and 78. These requirements include, but are not limited to:
- a. Hold an Acid Rain permit (~~Acid Rain Permit is included in Appendix B~~);
 - b. Hold allowances, as of the allowance transfer deadline, in the unit's compliance sub-account of not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit;
 - c. Comply with the applicable Acid Rain emissions for sulfur dioxide;
 - d. Comply with the applicable Acid Rain emissions for nitrogen oxides;
 - e. Comply with the monitoring requirements of 40 C.F.R. Part 75 and section 407 of the Clean Air Act of 1990 and regulations implementing section 407 of the Act;
 - f. Submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 C.F.R. Part 72, Subpart I and 40 C.F.R. Part 75.

[45CSR33; 40 C.F.R. Parts 72, 73, 74, 75, 76, 77, 78]

4.5.6. General reporting requirements for 40 C.F.R. Part 64 (CAM)

- a. On and after the date specified in 40 C.F.R. §64.7(a) by which the permittee must use monitoring that meets the requirements of 40 C.F.R. 64, the permittee shall submit monitoring reports to the DAQ in accordance with permit condition 3.5.6.
- b. A report for monitoring under 40 C.F.R. 64 shall include, at a minimum, the information required under permit condition 3.5.8. and the following information, as applicable:
 - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable) provided in accordance with 40 C.F.R. Part 75; and
 - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the permittee shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

[40 C.F.R. § 64.9(a); 45CSR§30-5.1.c.]

4.6. Compliance Plan

- 4.6.1. There is no compliance plan since a responsible official certified compliance with all applicable requirements in the Title V renewal application.

5.0 Source-Specific Requirements [Coal and Ash Handling (*Emission points are listed in subsection 1.1.*)]

5.1. Limitations and Standards

5.1.1. The Coal and Ash handling systems are subject to 45CSR§2-5 as outlined in the facility wide section of this permit (condition 3.1.11.) regarding fugitive dust control system.

5.2. Monitoring Requirements

5.2.1. Reserved.

5.3. Testing Requirements

5.3.1. Reserved.

5.4. Recordkeeping Requirements

5.4.1. Refer to the recordkeeping in condition 3.4.4. in order to demonstrate compliance with the fugitive dust requirements referenced in condition 5.1.1.

5.5. Reporting Requirements

5.5.1. Reserved.

5.6. Compliance Plan

5.6.1. There is no compliance plan since a responsible official certified compliance with all applicable requirements in the Title V renewal application.

Appalachian Power Suggests that the following Deletion be made in the Facility Wide Requirements section of the permit.

3.1.12 CAMR Mercury Budget Trading Program (UNIT 1 & UNIT2)

Section 3.1.12 language (including subparts) should be deleted during this permit renewal and marked as “reserved”, as the CAMR rule was repealed.

Appalachian Power Suggests that the following sections concerning MATS and RICE (requirements be added during this permit renewal.

3.1.16 General Compliance MATS

3.1.16 The National Emission Standards for Hazardous Air Pollutants From Coal- and Oil-Fired Electric Utility Steam Generating Units (EGU MATS) Rule, codified in 40 CFR 63 Subpart UUUUU, became effective on April 16, 2012. The rule applies to existing and new steam electric generation units that utilize oil or coal. This rule is applicable to the Unit 1 and 2 boilers (Unit 1, Unit 2) and compliance with the emission limits (Table 2) and work practice standards (Table 3) for existing sources is required beginning on 4/16/2015, or later if granted an extension from the compliance date through written approval as allowed through 40 CFR 63.6.i.3, or as amended by US EPA.

Note: In a letter dated September 16, 2013 from Director Benedict to John M. McManus, conditional approval was granted for a 45 day extension of compliance for Kanawha River Plant. As indicated, both of the Kanawha River Plant boilers will be shut down at the end of the compliance extension unless further revisions are made to the compliance plan.

[40CFR63 subpart UUUUU, 45 CSR 34]

Section 6 – RICE requirements for Emergency Engines

6.0 Emergency Fire Pump Engine

6.1. Limitations and Standards

6.1.1. If you have an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. The emergency diesel driven fire pump is required to meet the applicable requirements of the RICE rules in 40 CFR Part 60, Subpart and 40 CFR Part 63, Subpart ZZZZ. The source will meet the work practice standards associated with emergency engines as defined in this section of the permit .

[40 C.F.R. §63.6595(a)(1); 45CSR34]

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6.1.2. For emergency stationary CI RICE, you must meet the following requirements, except during periods of startup:

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
- b. inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.³

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

1. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of 40 C.F.R. 63 Subpart ZZZZ, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
2. Sources have the option to utilize an oil analysis program as described in 40 C.F.R. §63.6625(i) (permit condition 6.1.6.) in order to extend the specified oil change requirement in Table 2c of 40 C.F.R. 63 Subpart ZZZZ.
3. Sources can petition the Administrator pursuant to the requirements of 40 C.F.R. §63.6(g) for alternative work practices.

[40 C.F.R. §63.6602, Table 2c, Row 1; 40 C.F.R. §63.6625(h); 45CSR34]

6.1.3. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results,

review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. §63.6605(b); 45CSR34]

6.1.4. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 C.F.R. §§63.6625(e) and 63.6625(e)(2); 40 C.F.R. §63.6640(a), Table 6, Row 9; 45CSR34]

6.1.5. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

[40 C.F.R. §63.6625(f); 45CSR34]

6.1.6. If you own or operate a stationary CI engine that is subject to the work, operation or management practices in item 1 of Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 6.1.2.), you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c to 40 C.F.R. 63 Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 6.1.2.a.). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine (permit condition 6.1.4.).

[40 C.F.R. §63.6625(i); 45CSR34]

6.1.7. *Requirements for emergency stationary RICE.* If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) of this permit condition. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency

situations for 50 hours per year, as described in paragraphs (i) through (iii) of this permit condition, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) of this permit condition, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing.

[40 C.F.R. §63.6640(f)(1); 45CSR34]

6.2. Monitoring Requirements

6.2.1. Reserved.

6.3. Testing Requirements

6.3.1. Reserved.

6.4. Recordkeeping Requirements

6.4.1. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan (permit condition 6.1.4.) if you own or operate an existing stationary emergency RICE.

[40 C.F.R. §§63.6655(e) and 63.6655(e)(2); 45CSR34]

6.4.2. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40 C.F.R. §§63.6655(f) and 63.6655(f)(1); 45CSR34]

6.4.3. Form and Retention of Records for 40 C.F.R. 63 Subpart ZZZZ.

(a) Your records must be in a form suitable and readily available for expeditious review according to 40 C.F.R. §63.10(b)(1).

(b) As specified in 40 C.F.R. §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 readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 C.F.R. §63.10(b)(1).

[40 C.F.R. §§63.6660(a), (b), and (c); 45CSR34]

6.5. Reporting Requirements

6.5.1. You must report each instance in which you did not meet each limitation in Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 6.1.2.). These instances are deviations from the emission and operating limitations in 40 C.F.R. 63 Subpart ZZZZ. These deviations must be reported according to the requirements in 40 C.F.R. §63.6650 (permit condition 6.5.3.).

[40 C.F.R. §63.6640(b); 45CSR34]

6.5.2. You must also report each instance in which you did not meet the requirements in Table 8 to 40 C.F.R. 63 Subpart ZZZZ that apply to you.

[40 C.F.R. §63.6640(e); 45CSR34]

6.5.3. The permittee must report all deviations as defined in 40 C.F.R. 63 Subpart ZZZZ in the semiannual monitoring report required by permit condition 3.4.6.

[40 C.F.R. §63.6650(f); 45CSR34]

6.6. Compliance Plan

6.6.1. Reserved