

Ms. Bev McKeone, NSR Program Manager
Division of Air Quality
West Virginia Department of Environmental Protection
601 57th Street
Charleston, West Virginia 25304

RE: 45 CSR 13 Permit Class II Administrative Update/Title V Permit Minor Modification
Appalachian Power Company, Ceredo Generating Station

February 16, 2016

Dear Ms. McKeone,

Enclosed, please find the original hard copy and two CD copies of a 45 CSR 13 permit Class II Administrative Update application being submitted on behalf of the Appalachian Power Company, Ceredo Generating Station. Appalachian Power Company is requesting that the existing Ceredo Generating Station permit R13-2382C be revised to eliminate the CO oxidation catalyst minimum performance requirements, while maintaining the emission limits applicable to the facility. These changes and the permitting strategy have previously been discussed with Mr. Steven R. Pursley, Engineer with WVDEP – Division of Air Quality.

A Class 1 legal advertisement is being placed in the local newspaper and the affidavit of publication will be provided to your office once it has been received from the newspaper publisher. A check in the amount of \$300.00 is enclosed to cover the Regulation 13 Class II Administrative Update application fee.

In addition to the requested modification of the R13-2382C permit, we are requesting that Title V permit R30-09900081 be modified under minor modification provisions to include the terms and conditions related to Class II Administrative Update.

Please contact G. J. Wooten, AEP Air Quality Section Engineer, at (614) 716-1262 if you have any questions.

Sincerely,



Mr. Patrick C. Myers
Plant Manager, Ceredo Generating Station
Appalachian Power Company

Enclosures

Ms. Bev McKeone, NSR Program Manager
Division of Air Quality
Ceredo Generating Station, Permit Class II Administrative Update
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bcc w/ attachments

G. J. Wooten – AEP Environmental
L. Adkins – Ceredo Generating Station

bcc w/o attachments

J. C. Hendricks – AEP Environmental

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CEREDO GENERATING STATION REVISION OF CO OXIDATION CATALYST REQUIREMENTS REG. 13 PERMIT APPLICATION FOR ADMINISTRATIVE UPDATE II AND TITLE V MODIFICATION (R13-2382C and R30-09900081)

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**Class II Administrative Update to R13-2382C,
Minor Modification to R30-09900081
(CO Oxidation Catalyst Requirements)**

Application Preparation Date: February 15, 2016

**Prepared For: Appalachian Power Company
Ceredo Generating Station
1662 Walker Branch Road
Huntington, WV 25704**

**Prepared By: AEP Environmental Services Division
1 Riverside Plaza
Columbus, OH 43215**

 <p>WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 57th Street, SE Charleston, WV 25304 (304) 926-0475 www.dep.wv.gov/daq</p>	<p>APPLICATION FOR NSR PERMIT AND TITLE V PERMIT REVISION (OPTIONAL)</p>
<p>PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):</p> <p><input type="checkbox"/> CONSTRUCTION <input checked="" type="checkbox"/> MODIFICATION <input type="checkbox"/> RELOCATION</p> <p><input type="checkbox"/> CLASS I ADMINISTRATIVE UPDATE <input type="checkbox"/> TEMPORARY</p> <p><input checked="" type="checkbox"/> CLASS II ADMINISTRATIVE UPDATE <input type="checkbox"/> AFTER-THE-FACT</p>	<p>PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):</p> <p><input type="checkbox"/> ADMINISTRATIVE AMENDMENT <input checked="" type="checkbox"/> MINOR MODIFICATION</p> <p><input type="checkbox"/> SIGNIFICANT MODIFICATION</p> <p>IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION</p>
<p>FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.</p>	

Section I. General

<p>1. Name of applicant (as registered with the WV Secretary of State's Office): Appalachian Power Company</p>	<p>2. Federal Employer ID No. (FEIN): 5 4 0 1 2 4 7 9 0</p>
<p>3. Name of facility (if different from above): Ceredo Generating Station</p>	<p>4. The applicant is the: <input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH</p>
<p>5A. Applicant's mailing address: 1662 Walker Branch Road Huntington, WV 25704</p>	<p>5B. Facility's present physical address: 1662 Walker Branch Road Huntington, WV 25704</p>
<p>6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>– If YES, provide a copy of the Certificate of Incorporation/Organization/Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A.</p> <p>– If NO, provide a copy of the Certificate of Authority/Authority of L.L.C./Registration (one page) including any name change amendments or other Business Certificate as Attachment A.</p>	
<p>7. If applicant is a subsidiary corporation, please provide the name of parent corporation: American Electric Power</p>	
<p>8. Does the applicant own, lease, have an option to buy or otherwise have control of the <i>proposed site</i>? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>– If YES, please explain: Site is owned by applicant</p> <p>– If NO, you are not eligible for a permit for this source.</p>	
<p>9. Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): Administrative Update to CO permit requirements for a simple-cycle natural gas fired combustion turbine installation.</p>	<p>10. North American Industry Classification System (NAICS) code for the facility: 221112</p>
<p>11A. DAQ Plant ID No. (for existing facilities only): 0 9 9 - 0 0 0 8 1</p>	<p>11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): R13-2382C, R30-09900081-2013</p>

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates or Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction or Relocation permits**, please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP as Attachment B**.

Take Route 52 exit from I-64 and travel south for a short distance. Turn left onto Airport Road until you reach Huntington Testing. Turn left across the railroad tracks and turn immediately to the right onto Walker Branch Road. Turn right at the first stop sign. The facility is approximately 1 mile, on the left.

12.B. New site address (if applicable): 1662 Walker Branch Road	12C. Nearest city or town: Ceredo	12D. County: Wayne
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12.E. UTM Northing (KM): 4247.45	12F. UTM Easting (KM): 365.97	12G. UTM Zone: 17
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13. Briefly describe the proposed change(s) at the facility:
No physical or operational changes at the facility. The admin. update to the permit is simply to modify CO permit requirements without increasing the permitted emissions.

14A. Provide the date of anticipated installation or change: No physical or operational changes – If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: / /	14B. Date of anticipated Start-Up if a permit is granted: N/A /
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14C. Provide a **Schedule** of the planned **Installation of/Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day 24 Days Per Week 7 Weeks Per Year 52

16. Is demolition or physical renovation at an existing facility involved? YES NO

17. **Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18. **Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (*if known*). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (*if known*). Provide this information as **Attachment D**.

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to **Plot Plan Guidance**) .
– Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F**.

23. Provide a **Process Description** as **Attachment G**.
– Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H**.
 – For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I**.

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J**.

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K**.

28. Check all applicable **Emissions Unit Data Sheets** listed below:

<input type="checkbox"/> Bulk Liquid Transfer Operations	<input type="checkbox"/> Haul Road Emissions	<input type="checkbox"/> Quarry
<input type="checkbox"/> Chemical Processes	<input type="checkbox"/> Hot Mix Asphalt Plant	<input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities
<input type="checkbox"/> Concrete Batch Plant	<input type="checkbox"/> Incinerator	<input type="checkbox"/> Storage Tanks
<input type="checkbox"/> Grey Iron and Steel Foundry	<input checked="" type="checkbox"/> Indirect Heat Exchanger	
<input checked="" type="checkbox"/> General Emission Unit, specify 6 combustion turbines		

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L**.

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

<input type="checkbox"/> Absorption Systems	<input type="checkbox"/> Baghouse	<input type="checkbox"/> Flare
<input type="checkbox"/> Adsorption Systems	<input type="checkbox"/> Condenser	<input type="checkbox"/> Mechanical Collector
<input type="checkbox"/> Afterburner	<input type="checkbox"/> Electrostatic Precipitator	<input type="checkbox"/> Wet Collecting System

Other Collectors, specify Oxidation Catalyst for each combustion turbine.

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M**.

30. Provide all **Supporting Emissions Calculations** as **Attachment N**, or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O**.

➤ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and *Example Legal Advertisement* for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

YES NO

➤ If YES, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "*Precautionary Notice – Claims of Confidentiality*" guidance found in the *General Instructions* as **Attachment Q**.

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

<input type="checkbox"/> Authority of Corporation or Other Business Entity	<input type="checkbox"/> Authority of Partnership
<input type="checkbox"/> Authority of Governmental Agency	<input type="checkbox"/> Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R**.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned **Responsible Official** / **Authorized Representative**, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

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.

SIGNATURE PC Myers (Please use blue ink) DATE: 2/16/16 (Please use blue ink)

35B. Printed name of signee: Patrick C. Myers		35C. Title: Plant Manager
35D. E-mail: pcmyers@aep.com	36E. Phone: 304-528-7191	36F. FAX: 304-528-7198
36A. Printed name of contact person (if different from above): Gregory J. Wooten		36B. Title: Principal Engineer
36C. E-mail: gjwooten@aep.com	36D. Phone: 614-716-1262	36E. FAX:

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate | <input type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input checked="" type="checkbox"/> Attachment B: Map(s) | <input checked="" type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input checked="" type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input type="checkbox"/> Attachment D: Regulatory Discussion | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input checked="" type="checkbox"/> Attachment E: Plot Plan | <input checked="" type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input checked="" type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input checked="" type="checkbox"/> Attachment P: Public Notice |
| <input checked="" type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input type="checkbox"/> Attachment R: Authority Forms |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table | <input checked="" type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
 - NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
 - Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
 - NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
 - NSR permit writer should notify a Title V permit writer of draft permit,
 - Public notice should reference both 45CSR13 and Title V permits,
 - EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

Attachment A

West Virginia Certificate of Authority

State of West Virginia



Certificate

I, Natalie E. Tennant, Secretary of State of the State of West Virginia, hereby certify that

APPALACHIAN POWER COMPANY

a corporation formed under the laws of Virginia filed an application to be registered as a foreign corporation authorizing it to transact business in West Virginia. The application was found to conform to law and a "Certificate of Authority" was issued by the West Virginia Secretary of State on March 08, 1926.

I further certify that the corporation has not been revoked by the State of West Virginia nor has a Certificate of Withdrawal been issued to the corporation by the West Virginia Secretary of State.

Accordingly, I hereby issue this

CERTIFICATE OF AUTHORIZATION

Validation ID:2WV1G_CK2GX



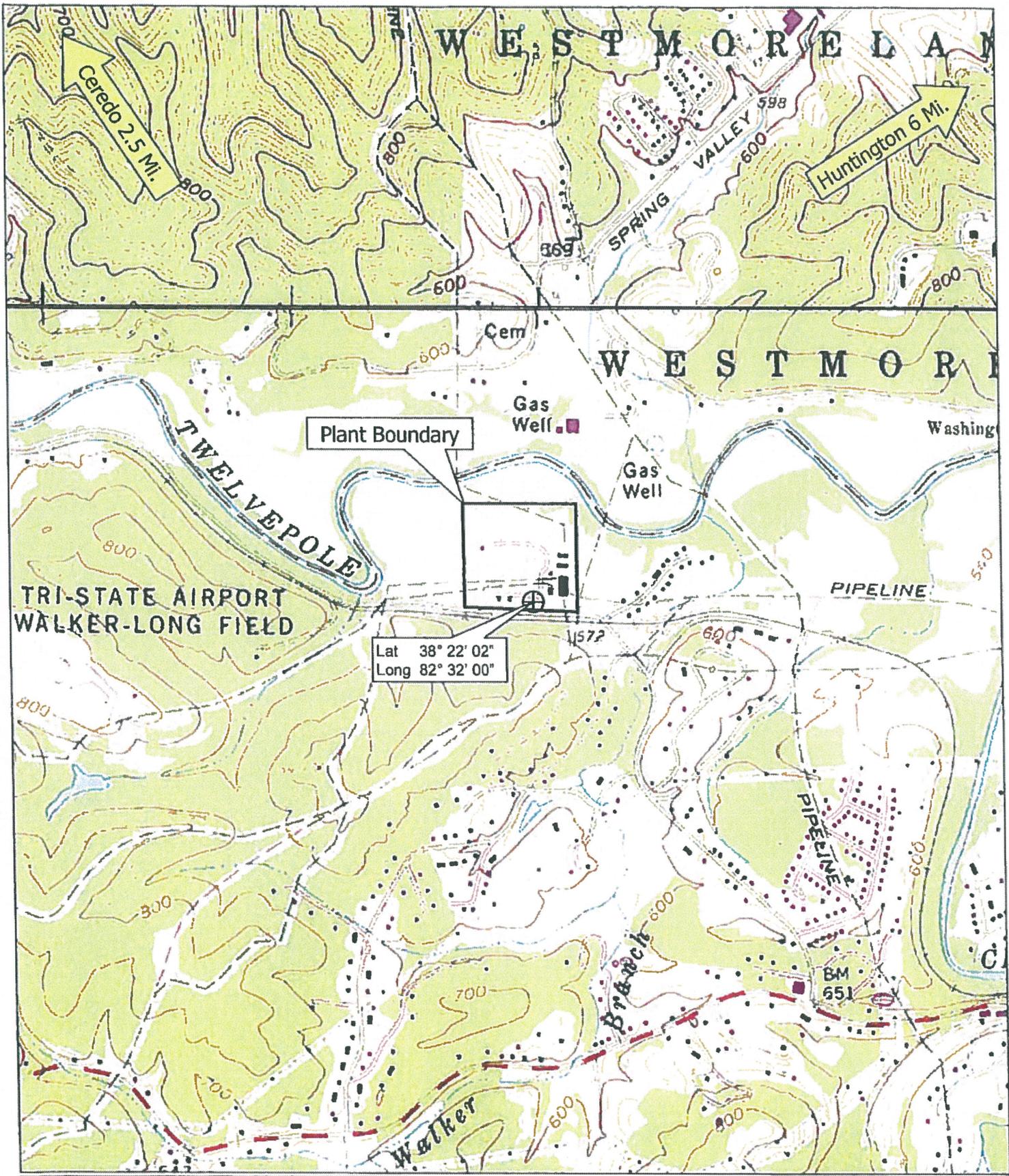
Given under my hand and the Great Seal of the State of West Virginia on this day of January 14, 2014

Natalie E. Tennant
Secretary of State

Notice: A certificate issued electronically from the West Virginia Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Certificate Validation Page of the Secretary of State's Web site, <https://apps.wv.gov/sos/businessentitysearch/validate.aspx> entering the validation ID displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate.

Attachment B

Map



Burnaugh, WV Quadrangle
 USGS Topographic Map
 Ceredo, WV – Wayne County

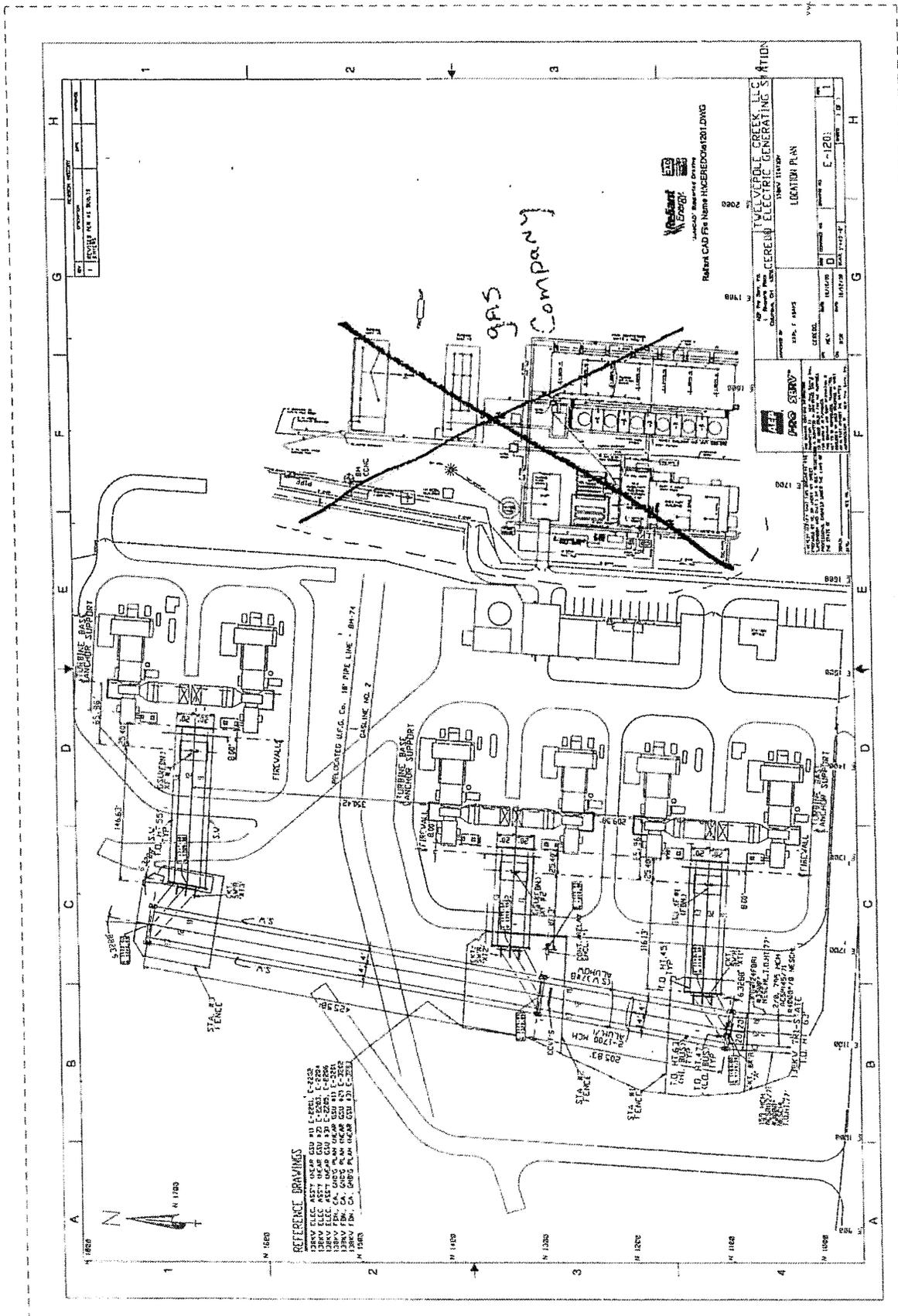
Appalachian Power Company
 Ceredo Generation Station

Plant Location Map



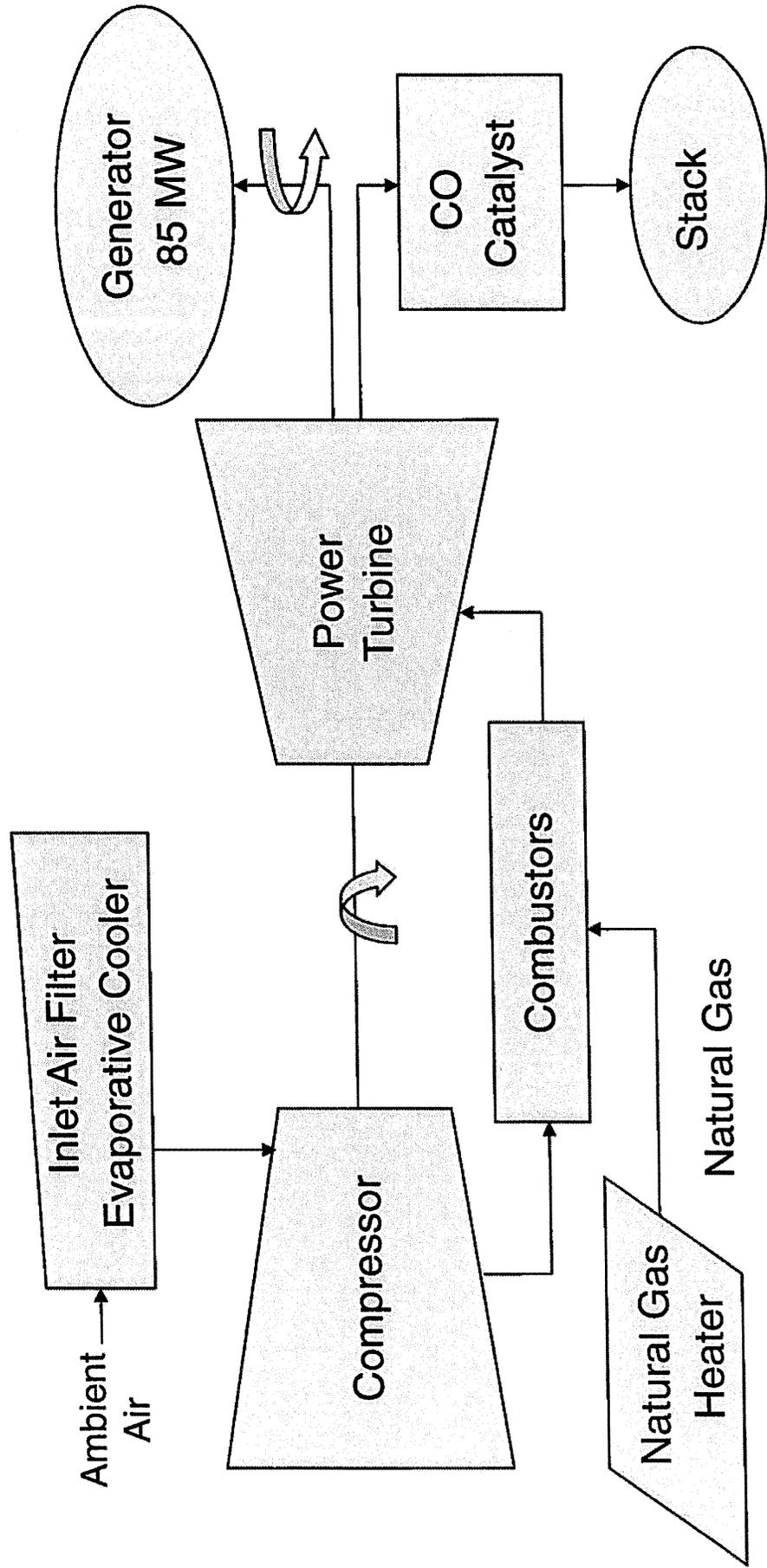
Attachment E

Plot Plan



Attachment F
Flow Diagrams

CEREDO GENERATING STATION PROCESS FLOW DIAGRAM



Attachment G
Process Description

Process Description

Ceredo Generating Station was constructed in 2000 and began operation in April of 2001. Ceredo Generating Station consists of six GE 7001 EA natural gas fired combustion turbines. Each turbine generator is nominally rated at 85 mw and each has a design heat input of 1,215 MMBtu/hr. Each turbine is equipped with a dry low NOx combustor and a CO oxidation catalyst. A single fuel gas heater operates concurrently with the gas turbines. The fuel heater is natural gas fired. The CO oxidation catalyst is the only post combustion pollution control equipment utilized with the combustion turbines. The facility was permitted with federally enforceable limitations that allowed the facility to be permitted as a minor NSR source rather than PSD.

The facility is currently required to test 3 of the 6 combustion turbines every 5 years to demonstrate the NOx and CO emissions, as well as the CO destruction efficiency. Generally the uncontrolled CO emissions are very low. This can potentially present a problem when demonstrating destruction efficiency which is currently required to be at least 50%. When the uncontrolled CO concentrations are in the single digits, it takes very little testing error to throw the calculated destruction efficiency off. For example if tested CO concentrations were 9 ppm, then a controlled concentration of 4.05 would result in a removal efficiency of 55%. However, a controlled concentration of 4.55 (only 0.5 ppm higher concentration) would result in a failed demonstration (49.4%). For this reason, and because the facility has generally demonstrated a significant margin of compliance with the hourly CO limit, the facility is requesting a permit update that provides relief from the 50% destruction efficiency performance requirement, however preserves the emission limits. Accordingly, the emissions from the facility will be unchanged.

As previously discussed with DAQ Permit Engineers, the facility is requesting a simple modification of the permit to remove the requirements associated with achieving 50% CO destruction efficiency with the oxidation catalyst. The facility will continue to maintain compliance with the existing short term and long term CO emission limits in the permit (47 lb/hr per stack, 240.2 tons/year all stacks combined), utilizing a combination of combustion tuning and the oxidation catalyst, without specifying a destruction efficiency. Preliminary discussions with DAQ Permit Engineers indicate that such a change is acceptable. The facility will continue to complete periodic stack testing in order to demonstrate compliance with the NOx and CO permit limits.

Attachment I
Emission Units Table

Attachment I

Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID ¹	Emission Point ID ²	Emission Unit Description	Year Installed/Modified	Design Capacity	Type ³ and Date of Change	Control Device ⁴
1E	1S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1215 mmbtu/hr		CO Catalyst 1C
2E	2S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1215 mmbtu/hr		CO Catalyst 2C
3E	3S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1215 mmbtu/hr		CO Catalyst 3C
4E	4S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1215 mmbtu/hr		CO Catalyst 4C
5E	5S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1215 mmbtu/hr		CO Catalyst 5C
6E	6S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1215 mmbtu/hr		CO Catalyst 6C

¹ For Emission Units (or Sources) use the following numbering system: 1S, 2S, 3S,... or other appropriate designation.
² For Emission Points use the following numbering system: 1E, 2E, 3E, ... or other appropriate designation.
³ New, modification, removal
⁴ For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

Attachment J

Emission Points Data Summary Sheet

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (chemical processes only)		All Regulated Pollutants - Chemical Name/CAS ³ (Speciate VOCs & HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration ⁷ (ppmv or mg/m ³)
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
1S, 2S, 3S, 4S, 5S, 6S	Upward vertical stack (each)	1E, 2E, 3E, 4E, 5E, 6E	Combustion Turbines Unit 1 through Unit 6	1C, 2C, 3C, 4C, 5C, 6C	Oxidation Catalysts 1 through 6			CO NOX PM10 SO2 VOC HAPS lb/hr figures are for each unit. Ton/yr figures are for facility wide	94 40 17 5 4.0 1.0	240.2 245.3 83.3 5.0 13.6 7.4	47 40 17.0 5 4 1.0	240.2 245.3 83.3 5.0 13.6 7.4			

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

- Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.
- Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (ie., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).
- List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO_x, all applicable Greenhouse Gases (including CO₂ and methane), etc. DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.
- Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
- Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
- Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).
- Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m³) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO₂, use units of ppmv (See 45CSR10).

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 2: Release Parameter Data

Emission Point ID No. (Must match Emission Units Table)	Inner Diameter (ft.)	Exit Gas			Emission Point Elevation (ft)			UTM Coordinates (km)	
		Temp. (°F)	Volumetric Flow ¹ (acfm) at operating conditions	Velocity (fps)	Ground Level (Height above mean sea level)	Stack Height ² (Release height of emissions above ground level)	Northing	Easting	
1S	9'x19' rectangle	958-1079	1,177,700-1,644,200	115-160		75	4247.6640	366.0210	
2S	9'x19' rectangle	958-1079	1,177,700-1,644,200	115-160		75	4247.6540	366.0200	
3S	9'x19' rectangle	958-1079	1,177,700-1,644,200	115-160		75	4247.5601	365.9891	
4S	9'x19' rectangle	958-1079	1,177,700-1,644,200	115-160		75	4247.5497	365.9881	
5S	9'x19' rectangle	958-1079	1,177,700-1,644,200	115-160		75	4247.4968	365.9838	
6S	9'x19' rectangle	958-1079	1,177,700-1,644,200	115-160		75	4247.4877	365.9833	

¹ Give at operating conditions. Include inerts.

² Release height of emissions above ground level.

Attachment L
Emission Unit Data Sheets

Attachment L EMISSIONS UNIT DATA SHEET GENERAL

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on *Equipment List Form*): 1E, 2E, 3E, 4E, 5E, 6E

<p>1. Name or type and model of proposed affected source:</p> <p>Gas Turbines 1E through 6E, all are GE Model MS 7001EA/PG7121(EA)</p>
<p>2. On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of all features of the affected source which may affect the production of air pollutants.</p>
<p>3. Name(s) and maximum amount of proposed process material(s) charged per hour:</p> <p>Simple Cycle Pipeline Natural Gas Fired Combustion Turbine with a design capacity of 1215 mmBtu/hr (each)</p>
<p>4. Name(s) and maximum amount of proposed material(s) produced per hour:</p> <p>Combustion Turbine is used to drive an electric generator.</p>
<p>5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:</p>

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

8. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:

@	°F and	psia	
a. NO _x	40 (each CT)	lb/hr	grains/ACF
b. SO ₂	5 (each CT)	lb/hr	grains/ACF
c. CO	47 w catalyst 94 w/o catalyst (each CT)	lb/hr	grains/ACF
d. PM ₁₀	17 (each CT)	lb/hr	grains/ACF
e. Hydrocarbons		lb/hr	grains/ACF
f. VOCs	4 (each CT)	lb/hr	grains/ACF
g. Pb		lb/hr	grains/ACF
h. Specify other(s)			
Total HAPS	1.0 (each CT)	lb/hr	grains/ACF
		lb/hr	grains/ACF
		lb/hr	grains/ACF
		lb/hr	grains/ACF

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. Proposed Monitoring, Recordkeeping, Reporting, and Testing
 Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING
 See Suggested Permit Language for modifications to existing permit language

RECORDKEEPING
 See Suggested Permit Language for modifications to existing permit language

REPORTING
 See Suggested Permit Language for modifications to existing permit language

TESTING
 See Suggested Permit Language for modifications to existing permit language

MONITORING. PLEASE LIST AND DESCRIBE THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty
 Unaffected by permit update

Attachment M
Air Pollution Control Device Sheets

**Attachment M
Air Pollution Control Device Sheet
(OTHER COLLECTORS)**

Control Device ID No. (must match Emission Units Table): 1C, 2C, 3C, 4C, 5C, 6C

Equipment Information

1. Manufacturer: Englehard Camet or equivalent Model No.	2. Control Device Name: Oxidation Catalyst for reducing CO emissions Type:
3. Provide diagram(s) of unit describing capture system with duct arrangement and size of duct, air volume, capacity, horsepower of movers. If applicable, state hood face velocity and hood collection efficiency.	
4. On a separate sheet(s) supply all data and calculations used in selecting or designing this collection device.	
5. Provide a scale diagram of the control device showing internal construction.	
6. Submit a schematic and diagram with dimensions and flow rates.	
7. Guaranteed minimum collection efficiency for each pollutant collected: Nominal design: 50% CO reduction by the oxidation catalyst.	
8. Attached efficiency curve and/or other efficiency information.	
9. Design inlet volume: _____ SCFM	10. Capacity: _____
11. Indicate the liquid flow rate and describe equipment provided to measure pressure drop and flow rate, if any.	
12. Attach any additional data including auxiliary equipment and operation details to thoroughly evaluate the control equipment.	
13. Description of method of handling the collected material(s) for reuse or disposal. N/A	

Gas Stream Characteristics

14. Are halogenated organics present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Are particulates present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Are metals present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
15. Inlet Emission stream parameters:	Maximum	Typical	
Pressure (mmHg):			
Heat Content (BTU/scf):			
Oxygen Content (%):			
Moisture Content (%):			
Relative Humidity (%):			

16. Type of pollutant(s) controlled: <input type="checkbox"/> SO _x <input type="checkbox"/> Odor		<input checked="" type="checkbox"/> Other (CO)				
<input type="checkbox"/> Particulate (type):						
17. Inlet gas velocity: 91 - 127 ft/sec	18. Pollutant specific gravity:					
19. Gas flow into the collector: ACF @ °F and PSIA	20. Gas stream temperature: Inlet: °F Outlet: °F					
21. Gas flow rate: Design Maximum: ACFM Average Expected: ACFM	22. Particulate Grain Loading in grains/scf: Inlet: Outlet:					
23. Emission rate of each pollutant (specify) into and out of collector:						
Pollutant	IN Pollutant		Emission Capture Efficiency %	OUT Pollutant		Control Efficiency %
	lb/hr	grains/acf		lb/hr	grains/acf	
A CO	94		100	47		50
B						
C						
D						
E						
24. Dimensions of stack: Height ft. Diameter ft.						
25. Supply a curve showing proposed collection efficiency versus gas volume from 25 to 130 percent of design rating of collector.						

Particulate Distribution

26. Complete the table: Particulate Size Range (microns)	Particle Size Distribution at Inlet to Collector	Fraction Efficiency of Collector
	Weight % for Size Range	Weight % for Size Range
0 - 2		
2 - 4		
4 - 6		
6 - 8		
8 - 10		
10 - 12		
12 - 16		
16 - 20		
20 - 30		
30 - 40		
40 - 50		
50 - 60		
60 - 70		
70 - 80		
80 - 90		
90 - 100		
>100		

27. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification): N/A

28. Describe the collection material disposal system: N/A

29. Have you included *Other Collectores Control Device* in the Emissions Points Data Summary Sheet?

30. Proposed Monitoring, Recordkeeping, Reporting, and Testing
 Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

<p>MONITORING: See suggested permit language for modifications to existing permit language.</p>	<p>RECORDKEEPING: See suggested permit language for modifications to existing permit language.</p>
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<p>REPORTING: See suggested permit language for modifications to existing permit language.</p>	<p>TESTING: See suggested permit language for modifications to existing permit language.</p>
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<p>MONITORING: RECORDKEEPING: REPORTING: TESTING:</p>	<p>Please list and describe the process parameters and ranges that are proposed to be monitored in order to demonstrate compliance with the operation of this process equipment or air control device. Please describe the proposed recordkeeping that will accompany the monitoring. Please describe any proposed emissions testing for this process equipment on air pollution control device. Please describe any proposed emissions testing for this process equipment on air pollution control device.</p>
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31. Manufacturer's Guaranteed Control Efficiency for each air pollutant. Nominally, 50% for CO

32. Manufacturer's Guaranteed Control Efficiency for each air pollutant.

33. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

Attachment N
Supporting Emissions Calculations

Emission Estimates are Unaffected by this permit revision

Combustion Turbine Hourly Emissions

	1E Emissions (lb/hr)	2E Emissions (lb/hr)	3E Emissions (lb/hr)	4E Emissions (lb/hr)	5E Emissions (lb/hr)	6E Emissions (lb/hr)
Nox	40	40	40	40	40	40
SO2	5	5	5	5	5	5
CO (uncontrolled)	94	94	94	94	94	94
CO (controlled)	47	47	47	47	47	47
PM10	17	17	17	17	17	17
VOCs	4	4	4	4	4	4
Total HAPS	1	1	1	1	1	1

Combustion Turbine Annual Emissions (facility wide)

	Emissions for 6 CTs Combined (tons/year)
Nox	245.3
SO2	5
CO (uncontrolled)	240.2
CO (controlled)	240.2
PM10	83.3
VOCs	13.6
Total HAPS	7.4

Attachment O
Monitoring/Recordkeeping/Reporting/Testing
Plans

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

A. SPECIFIC REQUIREMENTS

- Hourly emissions from each of the six General Electric Model MS 7101EA / PG7121 (EA) Combustion Turbines (1S-6S) shall not exceed the following (except during periods of startup and shutdown and when the turbines are operated without the CO catalyst):

Pollutant	lbs/hr
Oxides of Nitrogen	40
Sulfur Dioxide	5
PM-10	17*
Volatile Organic Compounds	4
Carbon Monoxide (with CO catalyst operating)	47
Carbon Monoxide (without CO catalyst operating)	94
Hazardous Air Pollutants	1.0

*EPA Method 5, front and back half catch.

- Combined yearly emissions from the six General Electric Model MS 7001EA / PG7121(EA) Combustion Turbines (1S-6S) shall not exceed the following:

Pollutant	TPY
Oxides of Nitrogen	245.3
Sulfur Dioxide	5.0
PM-10	83.3
Volatile Organic Compounds	13.6
Carbon Monoxide	240.2
Hazardous Air Pollutants	7.4

- Combustion Turbines (1S -6S) shall not combust more than 12×10^9 scflyr of fuel cumulatively on a rolling 12 month basis unless Continuous Emission Monitors (CEM's) for NO_x are installed and operating.

4. ~~CO oxidation catalysts, identified in permit application R13-2382A as 1C, 2C, 3C, 4C, 5C, and 6C, shall be installed, maintained, and operated so as to achieve a minimum 50.00% destruction efficiency in the control of Carbon Monoxide emissions from the turbines.~~ The CO oxidation catalysts shall be utilized at all times except in the case of failure of the catalyst. In the event of failure of the catalyst, the permittee shall notify the Division of Air Quality within 24 hours. In no case shall the facility operate without the use of CO oxidation catalysts for more than 2,688 turbine-hours per year based on a rolling yearly total. Additionally, in no case shall the emission limitations set forth in Specific Requirements A.1. and A.2 be exceeded except for hourly CO emissions which shall not exceed 94 lbs/hr during periods of catalyst failure.

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- 5. The sulfur content of the gas being fired shall not exceed 1.32 grains/100 scf.
- 6. Combined hours of operation for the six (6) turbines shall not exceed 15,150 hours per year unless Continuous Emission Monitors (CEM's) for NO_x are installed and operating. Compliance with this limit shall be determined using a 12 month rolling average.
- 7. The fuel gas heater located on-site shall not combust more than 49.8 x 10⁶ scf/yr of fuel cumulatively on a rolling 12 month basis.

B. OTHER REQUIREMENTS

- 1. The permittee shall comply with all applicable provisions of 45CSR2, 45CSR10, 45CSR13, 45CSR16, 45CSR30 and 40 CFR 60, Subparts De and GG, provided that the permittee shall comply with any more stringent requirements as may be set forth under Specific Requirements, Section (A) of this permit. Legislative Rule 45CSR16 incorporates therein 40 CFR 60.
- 2. The pertinent sections of 45CSR2 applicable to this facility include, but are not limited to, the following:

§45-2-3.1
 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 (10) percent opacity based on a six minute block average.

§45-2-4.1
 No person shall cause, suffer, allow, or permit the discharge of particulate matter into the open air from all fuel burning units located at one plant, measured in terms of pounds per hour in excess of the amount determined as follows:

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 Appalachian Power Company
 Ceredo Generating System

§45-2-4.1.b

For Type 'b' fuel burning units, the product of 0.09 and the total design heat inputs for such units in million B.T.U.'s per hour, provided however that no more than six hundred (600) pounds per hour of particulate matter shall be discharged into the open air from all such units.

§45-2-5.1

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:

3. The pertinent sections of 45CSR10 applicable to this facility include, but are not limited to, the following:

§45-10-3.3.

No person shall cause, suffer, allow, or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined as follows:

§45-10-3.3.f.

For Type 'b' and Type 'c' fuel burning units, the product of 3.2 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.

4. The pertinent sections of 45CSR13 applicable to this facility include, but are not limited to, the following:

§45-13-6.1

At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Secretary thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such other tests the Secretary may specify shall be conducted to determine compliance.

§45-13-10.2

The Secretary may suspend or revoke a permit if, after six (6) months from the date of issuance, the holder of the permit cannot provide the Secretary, at the Secretary's request, with written proof of a good faith effort that construction, modification, or relocation, if applicable, has commenced. Such proof shall be provided not later than thirty (30) days after the

Secretary's request. If construction or modification of a stationary source is discontinued for a period of eighteen (18) months or longer, the Secretary may suspend or revoke the permit.

§45-13-10.3

The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to. Upon notice of the Secretary's intent to suspend, modify or revoke a permit, the permit holder may request a conference with the Secretary in accordance with the provisions of W.Va Code § 22-5-5 to show cause why the permit should not be suspended, modified or revoked.

- 5. The permittee shall conduct stack tests on each gas turbine to determine compliance with the emissions rates for NOx and CO found at Paragraph (A)(1) of this permit in accordance with EPA test methods described in 40 CFR 60, Appendix A. Compliance testing of each gas turbine shall be conducted at 100% of full load, within 60 days after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after initial startup of the facility. Specifically, NOx emissions shall be determined utilizing Method 20, and CO emissions ~~and oxidative catalyst performance (greater than or equal to 50%)~~ shall be determined utilizing EPA Method 10. The results reported to the Director of the Division of Air Quality, WV Division of Environmental Protection within 45 days after the date of completion of stack test.
- 6. The permittee shall submit a stack test protocol detailing the testing procedure, including, but not limited to, sampling methods and procedures, quality assurance procedures, and sampling location. The test protocol shall be received by the Director no less than 30 days prior to the planned date of stack testing. The Director shall be notified at least 15 days in advance of the planned date and time during which the test will be conducted.
- 7. The operations of the new affected facilities under this permit are subject to requirements of 40 CFR 60, Subpart GG. Pertinent sections applying to these operations include, but are not limited to:

§60.7(a)

Any owner or operator subject to the provisions of this part shall furnish written notification as follows :

§60.7(a)(1)

A notification of the date construction is commenced postmarked no later than 30 days after such date.

§60.7(a)(3)

A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.

§60.8(a)

Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Administrator under section 114 of the act, the owner or operator of such facility shall conduct performance test(s) and furnish a written report of the results of such performance test(s).

§60.11(d)

At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate, any affected facility including associated air pollution equipment in a manner consistent with good air pollution control practice for minimizing emissions.

§60.332(a)

On and after the date of the performance test required by §60.8 is completed, every owner or operator subject to the provisions of this subpart as specified in paragraphs (b), (c) and (d) of this section shall comply with the following, except as provided in paragraphs (e), (f), (g), (h), (i), (j), (k), and (l) of this section.

§60.332(a)(1)

No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of:

$$\text{STD} = 0.0075 * (14.4/Y) + F$$

where:

STD = allowable NO_x emissions (percent volume at 15 percent oxygen and on a dry basis)

Y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not to exceed 14.4 kilojoules per watt hour.

F = NO_x emission allowance for fuel-bound nitrogen as defined in paragraph (a)(3) of this section.

§60.332(b)

Electric utility stationary gas turbines with a heat input at peak load greater than 107.2 gigajoules per hour (100 million Btu/hour) based on the lower heating value of the fuel fired shall comply with the provisions of paragraph (a)(1) of this section.

§60.333

On and after the date on which the performance test required to be conducted by §60.8 is completed, every owner or operator subject of the provision of this subpart shall comply with one or the other of the following conditions:

- (a) No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis.
- (b) No owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.

§60.334(b)

The owner or operator of any stationary gas turbine subject to the provisions of this subpart shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows:

- (2) If the turbine is supplied its fuel without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with paragraph (b) of this section.

8. The operations of the gas fuel heater are subject to the requirements of 40 CFR 60, Subpart De. Pertinent sections applying to these operations include, but are not limited to the following:

§60.48c(a)

The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by §60.7 of this part. This notification shall include:

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Appalachian Power Company
Ceredo Generating System

§60.48c(a)(1)

The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

§60.48c(g)

The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day

§60.48c(i)

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

§60.48c0)

The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

- 10. All notifications and reports required pursuant to 40 CFR 60 under §60.7 shall be forwarded to:

Director WVDEP Division of Air Quality 601 5th Street, SE Charleston, WV 25304-2345	and	Associate Director Office of Enforcement and Permits Review (3AP12) US Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2029
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- 11. For the purposes of determining compliance with the maximum fuel combustion limits set forth in Specific Requirements A.3 and A.8, the applicant shall maintain certified daily records, utilizing the form identified as Attachment A. Such records shall be retained on-site by the permittee for at least five (5) years. Certified records shall be made available to the Director or his or her duly authorized representative upon request.
- 12. For the purposes of determining compliance with maximum hours of operation limits set forth in Specific Requirements A.6 and A.7, the applicant shall maintain certified daily records, utilizing the form identified as Attachment B. Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his or her duly authorized representative upon request.
- 13. If NO_xCEM's are installed on the gas turbines, they shall be installed, operated, and maintained in accordance with the requirements of 40 CFR 75; once they are operational and have been calibrated, the applicant shall notify WVDEP that this has been done, and the fuel usage and operational restrictions set forth in Specific Requirements A.3 and A.6 will no longer apply. The NO_x CEM's will assure compliance with the NO_x emission limits set forth in Specific Requirements A.1 and A.2.

- 14. If NO_x CEM's are not installed, NO_x emissions from each gas turbine will be determined and tracked in accordance with 40 CFR 75.
- 15. If CO CEM's are not installed, CO emissions ~~and oxidative catalyst performance (greater than or equal to 50%)~~ will be determined prior to the earlier of 3,000 unit hours or the 5-year anniversary and renewal of the facility's operating permit under 40 CFR 72, utilizing EPA Method 10, an analyzer complying with EPA Method 10, or EPA Conditional Test Method 30 (GRI Method).
- 16. For the purposes of determining compliance with Specific Requirement A.4. the permittee shall maintain certified daily records, utilizing the form identified as Attachment C. Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his or her duly authorized representative upon request.

17. Compliance with the mass emission limits of section 4.1.4, shall be demonstrated by performing the following calculations every month for the parameters monitored in 4.2.3. Each of the mass emissions will then be averaged on a monthly basis recorded and will then be used to create the monthly and 12-month rolling average emission reports.

Heat Input Calculation $HI = (Q_v * GCV) / 10^6$

Where $HI = \text{heat input in mmBtu/hr}$
 $Q_v = \text{volumetric fuel flow in 100scf/hr}$
 $GCV = \text{Btu/100scf}$

NO_x Emission Rate $NO_x PPH = NO_x * HI$

Where $NO_x PPH = \text{NO}_x \text{ emissions in lbs/hr}$
 $NO_x = \text{NO}_x \text{ emissions in lbs/mmBtu as calculated according to the requirements of 4.2.1.}$
 $HI = \text{heat input in mmBtu/hr}$

During Startup: 21.6 minutes after flame-on is detected, add 14.6 lb to the total.

SO₂ Emission Rate $M SO_2 = HI * ER SO_2$

Where $M SO_2 = \text{mass emission for SO}_2 \text{ in lbs/hr}$
 $ER SO_2 = \text{default emission rate for SO}_2 \text{ (0.0006 lb/mmBtu for natural gas)}$
 $HI = \text{heat input in mmBtu/hr}$

PM₁₀ Emission Rate Use the following rules to track the PM₁₀ mass emissions

- 1. PM₁₀ emissions upstream of the CO catalyst will be 10 lbs/hr at all times.
- 2. The mass emission rates from SO₂ oxidation to H₂SO₄ is calculated by multiplying the SO₂ emission by the ratio of the molecular weights: SO₂ (lbs/hr) * (98/64).
- 3. PM₁₀ emissions are calculated as the sum of the upstream PM₁₀ emissions (1) and the resulting emissions from SO₂ oxidation to H₂SO₄ (2).

VOC Emission Rate VOC emissions are tracked in one of the two following ways:

1. For compressor inlet temperatures greater than or equal to 59°F, multiply the heat input (mmBtu/hr) by 0.002 lb/mmBtu.
2. For compressor inlet temperatures less than 59°F, multiply the heat input (mmBtu/hr) by 0.003 lb/mmBtu.

CO Emission Rate

1. For compressor inlet temperatures greater than or equal to 59°F OR when the turbines reach base load, multiply the heat input (mmBtu/hr) by 0.027 lb/mmBtu.
2. For compressor inlet temperatures greater than or equal to 59°F OR when the turbines reach base load, multiply the heat input (mmBtu/hr) by 0.054 lb/mmBtu when operating without the CO catalyst.
3. For compressor inlet temperatures less than 59°F AND the turbines are at less than base load, multiply the heat input (mmBtu/hr) by 0.048 lb/mmBtu.
4. For compressor inlet temperatures less than 59°F AND the turbines are at less than base load, multiply the heat input (mmBtu/hr) by 0.096 lb/mmBtu when operating without the CO catalyst.
5. For each startup (defined as 21.6 minutes after flame-on is detected), add 25.5 lb to the total and add 51.0 lb to the total when operating without a catalyst.

HAPs Emission Rate

Multiply the heat input (HI) rate determined above by each of the emission factors (lbs/mmBtu) in the table below to track all of the HAP components.

<u>1,3-Butadiene</u>	<u>4.3×10^{-7}</u>
<u>Acetaldehyde</u>	<u>7.8×10^{-5}</u>
<u>Acrolein</u>	<u>7.7×10^{-6}</u>
<u>Benzene</u>	<u>1.4×10^{-4}</u>
<u>Ethylbenzene</u>	<u>2.4×10^{-5}</u>
<u>Formaldehyde</u>	<u>2.9×10^{-5}</u>
<u>Naphthalene</u>	<u>1.4×10^{-4}</u>
<u>NDMA (N-nitrosodimethylamine)</u>	<u>2.3×10^{-7}</u>
<u>NMOR (N-nitrosomorpholine)</u>	<u>2.3×10^{-7}</u>
<u>PAH's (Polycyclic Aromatic Hydrocarbons)</u>	<u>1.8×10^{-4}</u>
<u>Propylene Oxide</u>	<u>2.8×10^{-5}</u>
<u>Toluene</u>	<u>1.3×10^{-4}</u>
<u>Trimethylamine (TMA)</u>	<u>1.7×10^{-7}</u>

<u>Xylene</u>	<u>2.6×10^5</u>
<u>Arsenic</u>	<u>4.8×10^8</u>
<u>Cadmium</u>	<u>8.2×10^7</u>
<u>Chromium-VI</u>	<u>1.3×10^6</u>
<u>Lead</u>	<u>1.6×10^5</u>
<u>Manganese</u>	<u>1.6×10^6</u>
<u>Mercury</u>	<u>4.3×10^7</u>

C. GENERAL REQUIREMENTS

1. In accordance with 45CSR30- "Operating Permit Program", the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first filing a Certified Emissions Statement (CES) and paying the appropriate fee. Such Certified Emissions Statement (CES) shall be filed and the appropriate fee paid annually. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Director or his/her duly authorized representative.
2. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.
3. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R13-2382, R13-2382A, R13-2382B and any amendments thereto. The Director may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.
4. At such reasonable time(s) as the Director may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in the permit application and/or applicable regulations. Test(s) shall be conducted in such a manner as the Director may specify or approve and shall be filed in a manner acceptable to the Director. The Director,

R13-2382C
Appalachian Power Company
Ceredo Generating System

or his/her duly authorized representative, may at his option witness or conduct such test. Should the Director exercise his option to conduct such test(s), the permittee shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. For any tests to be conducted by the permittee, a test protocol shall be submitted to the DAQ by the permittee at least thirty (30) days prior to the test and shall be approved by the Director. The Director shall be notified at least fifteen (15) days in advance of the actual dates and times during which the test will be conducted.

5. In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, authorized by this permit, the permittee shall notify the Director, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.
6. The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.
7. The permittee shall notify the Director, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized under this permit.
8. The permittee shall notify the Director, in writing, at least fifteen (15) calendar days prior to actual startup of the operations authorized under this permit.
9. This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13.
10. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7.

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

Attachment P
Public Notice

AIR QUALITY PERMIT NOTICE
Notice of Application

Notice is given that Appalachian Power Company's Ceredo Generating Station has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Class II Administrative Update to the existing permit for the electric generating facility located at 1662 Walker Branch Road, near Huntington, in Wayne County, West Virginia. The latitude and longitude coordinates are: 38.367364, -82.533239

The applicant estimates that there will be no change in the potential to discharge the following Regulated Air Pollutants. The annual potential to discharge (tons) will remain:

Carbon Monoxide (CO) 240.2
Nitrogen Oxides (NOX) 245.3
Particulate Matter (PM10) 83.3
Sulfur Dioxide (SO2) 5.0
Volatile Organic Compounds (VOC) 13.6
Total HAP's 7.4

No additional operation is being added to the facility. Implementation of the administrative updates to the air permit are planned to be effective on or about the 1st day of April, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.

Dated this the 15th day of February, 2016.

By: Appalachian Power Company
Ceredo Generating Station
Mr. Patrick C. Myers
Plant Manager
1662 Walker Branch Road
Huntington, WV 25704

Proof of Publication will be supplied once it is received.

3,429,013
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9,308,167
19,271,332

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AS C 1,831,248

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ou will take notice that
RISTIANA TRUST AS
JSTODIAN, the pur-
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le: 2014-S-00000

36, PT LT 8 2349
JAMS AVE, located in
UNTINGTON KYLE
ORP, which was re-
rned delinquent in the
ame of STANLEY
ARY, and for which
e tax lien(s) thereon
is sold by the sheriff

Cabell County at the
le for the delinquent
es made on the 6th
y of November,
14, has requested
you be notified that
deed for such real
ate will be made to
i or her on or after
1, 2016, as provid-
d by law, unless
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y day, March 31,
16 will be as follows:

ount Equal to the
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the date of the sale,
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16, 2016,
192.61

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perty, since the
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and service of
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the sheriff's sale to
h 31, 2016..
5.92

ount paid for other
itory costs with

1900 Kanawha Blvd.
East, Building 1,
Room W-114, Char-
leston, West Virginia,
25305.

Questions please call
1-888-509-6568 op-
tion 2

LH-39518
1-23,30;2-6; 2016

**AIR QUALITY
PERMIT NOTICE
Notice of
Application**

Notice is given that
Appalachian Power
Company's Ceredo
Generating Station has
applied to the West
Virginia Department of
Environmental Protec-
tion, Division of Air
Quality, for a Class II
Administrative Update
to the existing permit
for the electric generat-

Legal Notices

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-82.533239

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- Nitrogen Oxides (NOX) 245.3
- Particulate Matter (PM10) 83.3
- Sulfur Dioxide (SO2) 5.0
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of the administrative
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be effective on or
about the 1st day of
April, 2016. Written
comments will be re-
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Virginia Department of
Environmental Protec-
tion, Division of Air
Quality, 601 57th
Street, SE, Charleston,
WV 25304, for at least
30 calendar days from
the date of publication
of this notice.

Any questions regard-
ing this permit applica-
tion should be directed
to the DAQ at (304)
926-0499, extension
1250, during normal
business hours.

Dated this the 15th day
of February, 2016.

By:
**Appalachian Power
Company
Ceredo Generating
Station
Mr. Patrick C. Myers
Plant Manager
1662 Walker Branch
Road
Huntington, WV
25704**

LH-40206
2-16;2016

**NOTICE OF
TRUSTEE SALE
OF VALUABLE
REAL ESTATE**

Pursuant to the authori-
ty vested in the under-
signed by deed of trust
dated the 26th day of
June 2007, signed by
Cinda M. Price and Roy
E. Price, husband and
wife as joint tenants
with right of survivor-
ship, and Normie L.
Ramey, an unmarried
woman by Cinda Price,
her attorney in fact to

Legal Notices

Trustee deed is deliv-
ered or recorded. A
third party purchaser at
sale will be required to
pay the purchase price
plus all recording and
transfer fees.

Trustee at sale is under
no duty to cause any
existing tenant or per-
son occupying the sub-
ject property to vacate
said property.

FEDERAL TAX LIEN: In
the event that there are
Federal Tax Liens
against the property,
the United States would
have the right to re-
deem the property with-
in a period of 120 days
from the date of such
sale or the period
allowable for redemp-
tion under local law,
whichever is longer.

The party(ies) secured
by the Deed of Trust
reserve the right to
purchase the property
at such sale. If the
purchaser at sale is
unable to complete the
terms of purchase with-
in 30 days, the Trustee
reserves the right to
transfer the property to
the next highest bidder.

Any sale hereunder
may be adjourned from
time to time without
any notice other than
oral proclamation at
the time and place
appointed for this sale
or by posting of a
notice of same. Should
the Trustee not appear
at the time appointed
for the sale and there
is no notice posted of a
continuance please
contact the office of
the Trustee to make
further inquiry. Any sale
may be conducted or
adjourned by the desig-
nated agent or attorney
of the Trustee. The
undersigned is fully
vested with the authori-
ty to sell said property
as Trustee by instru-
ment of record.

Should any party have
any inquires, objections
to the sale or protests
regarding the sale, or
requests regarding the
sale, please notify the
trustee below by one of
the means of communi-
cations set forth below.

**GOLDEN & AMOS,
PLLC, TRUSTEE
543 Fifth Street,
P.O. Box 81
Parkersburg, WV
26102
Telephone
(304) 485 3851
Fax (304) 485-0261
E-mail: ygolden@
goldenamos.com**

LH-39561
2-9,16; 2016

NOTICE OF

Legal Notices

larly described as fol-
lows:

Beginning at a nail in a
culvert on the northerly
side of Tom's Creek
road, County Route 30,
point being distant S.
55° 00' W 138.57 feet
from an iron pin on the
southwesterly corner of
the twenty (20) acre
Parent Tract; thence
with the division line of
a 0.70 acre parcel
severed from Parent
Tract (DB 781, Page
580) N 17 degrees 36'
00" W 186.85 feet to
an iron pin set, com-
mon corner with said
0.70 acre parcel;
thence with the follow-
ing three (3) lines
serving the Parent
Tract N 17 degrees
36' 00" W a distance of
69.42 feet to an iron
pin set; thence N 53
degrees 58' 31" E a
distance of 181.34
feet to an iron pin set;
thence S 17 degrees
36' 00" E a distance of
254.59 feet to an iron
pin set in northerly right
of way of Tom's Creek
Road, County Route 30
a chord S 53 degrees
28' 23" W a distance of
181.89 feet to the
point of beginning, con-
taining 43,948 square
feet or 1.009 acres
more or less.

Plat titled "Plan of
1.009 acre survey
tract being severed
from a twenty (20) acre
Parent Tract (DB 802
Page 504) prepared by
Converse Surveying,
dated May 20, 2003 is
recorded in the Office
of the Clerk of the
County Commission of
Cabell County, West
Virginia, in Deed Book
1108 at page 162.

It is the intention of this
notice to sell the se-
cured property by prop-
er description as was
intended to be transfer-
red and conveyed in
the aforesaid deed of
trust.

The above described
real estate is reported
to have a mailing ad-
dress of:
2760 Toms Creek, Bar-
boursville, West Virginia
25705

TERMS OF SALE: Cash
in hand on day of sale
or within 30 days of
date of sale upon
terms to be agreed
upon between Trustee
and successful bidder,
time being of the es-
sence; payment for un-
paid real estate taxes to
be assumed by the
purchaser. The Trustee
does not warrant title
or fitness to this prop-
erty; it is being pur-
chased as is; this is a
biver beware sale and

HOROSCOPE

**By HOLIDAY MATHIS
Creators Syndicate**

ARIES (March 21-April 19). Money and security are important to you. Don't let anyone make you feel like you're uptight just because you need to know the details connected to your financial security. It doesn't make you uptight; it makes you smart.

TAURUS (April 20-May 20). You'll make practical choices, honor tradition and show up where you're expected. At some point you'll wonder what's in it for you -- a natural response to these circumstances. You'll find out the answer to that soon enough.

GEMINI (May 21-June 21). Common interests and social activities are at the center of a relationship right now, but there has to be more than that at the center for this to work well. Dig deeper and note what else is there.

CANCER (June 22-July 22). You are devoted to your loved ones and domestic life, but you have many tastes and interests outside of the realm of what your friends and family can understand.

LEO (July 23-Aug. 22). You know right away what is for you and what is not. However, you won't say no right away, because you care about people's feelings. Later, you'll be glad you make the effort to let them down gently.

VIRGO (Aug. 23-Sept. 22). Hard-selling isn't your thing. You prefer to present your case then step back and let people draw their own conclusions. Today's situation is different. There's more at stake, and it will be worth it to push and make it happen.

LIBRA (Sept. 23-Oct. 23). You'll do more to push a group's agenda than you would ever do to forward your own private interests. Think about this: Don't you deserve as ferocious a fight as you're giving on behalf of others?

SCORPIO (Oct. 24-Nov. 21). People will remember what you told them first and also the last thing you said. As for the middle, well, blame it on the diminishing attention span of the new world; then find another way to get that important message across.

SAGITTARIUS (Nov. 22-Dec. 21). You've a need for close personal relationships, but this need is not as driving or overwhelmingly big for you as it is for some. You can relate with compassion to the intense souls of your life while still maintaining perspective.

CAPRICORN (Dec. 22-Jan. 19). Although you approach the problem from a different place, you will come to the same solution as another great mind across the way. This is not happening by accident. Take it as a hint and let it bring you together.

AQUARIUS (Jan. 20-Feb. 18). This day comes complete with the gifts of a rare quality of warmth, affection and attraction. Enjoy and, while you're at it, save a little piece of this so you can recall it better later.

PISCES (Feb. 19-March 20). Diplomacy is often the best way to go, but in today's instance this is not the case. You'll be better off to take a stand for what you really believe; otherwise you'll wind up in a tight spot later.

TODAY'S BIRTHDAY (Feb. 16). By this time next year you'll be richer! You'll put your off-the-chart energy levels to excellent use in the next 10 weeks and get set for a major move mid-April. May is romantic, though love will visit you in many other forms, as well, as you head into a summer of rather unusual and exciting circumstances. Virgo and Sagittarius adore you. Your

Attachment S
Title V Permit and NSR Permit Revision
Information

Attachment S
Title V Permit Revision Information

1. New Applicable Requirements Summary

Mark all applicable requirements associated with the changes involved with this permit revision:

<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS (Subpart(s) _____)	<input type="checkbox"/> Section 112(d) MACT standards (Subpart(s) _____)
<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 type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64) ⁽¹⁾
<input type="checkbox"/> NO _x Budget Trading Program Non-EGUs (45CSR1)	<input type="checkbox"/> NO _x Budget Trading Program EGUs (45CSR26)

⁽¹⁾ If this box is checked, please include **Compliance Assurance Monitoring (CAM) Form(s)** for each Pollutants Specific Emission Unit (PSEU) (See Attachment H to Title V Application). If this box is not checked, please explain why **Compliance Assurance Monitoring** is not applicable:

While a CAM plan is utilized at Ceredo, it is not affected by this permit modification request.

2. Non Applicability Determinations

List all requirements, which the source has determined not applicable to this permit revision and for which a permit shield is requested. The listing shall also include the rule citation and a rationale for the determination.

Permit Shield Requested (not applicable to Minor Modifications)

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

3. Suggested Title V Draft Permit Language

Are there any changes involved with this Title V Permit revision outside of the scope of the NSR Permit revision? Yes No If Yes, describe the changes below.

Also, please provide **Suggested Title V Draft Permit language** for the proposed Title V Permit revision (including all applicable requirements associated with the permit revision and any associated monitoring /recordkeeping/ reporting requirements), OR attach a marked up pages of current Title V Permit. Please include appropriate citations (Permit or Consent Order number, condition number and/or rule citation (e.g. 45CSR§7-4.1)) for those requirements being added / revised.

4. Active NSR Permits/Permit Determinations/Consent Orders Associated With This Permit Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
R13-2382C	02/13/2009	
	/ /	
	/ /	

5. Inactive NSR Permits/Obsolete Permit or Consent Orders Conditions Associated With This Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
R13-2382 through R13-2382B	MM/DD/YYYY	Obsolete permits that have been replaced by current permit.
	/ /	
	/ /	

6. Change in Potential Emissions

Pollutant	Change in Potential Emissions (+ or -), TPY
N/A	N/A
No change in potential emissions	

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

7. Certification For Use Of Minor Modification Procedures (Required Only for Minor Modification Requests)

Note: This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete. The criteria for allowing the use of Minor Modification Procedures are as follows:

- i. Proposed changes do not violate any applicable requirement;
- ii. Proposed changes do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;
- iii. Proposed changes do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient air quality impacts, or a visibility increment analysis;
- iv. Proposed changes do not seek to establish or change a permit term or condition for which there is no underlying applicable requirement and which permit or condition has been used to avoid an applicable requirement to which the source would otherwise be subject (synthetic minor). Such terms and conditions include, but are not limited to a federally enforceable emissions cap used to avoid classification as a modification under any provision of Title I or any alternative emissions limit approved pursuant to regulations promulgated under § 112(j)(5) of the Clean Air Act;
- v. Proposed changes do not involve preconstruction review under Title I of the Clean Air Act or 45CSR14 and 45CSR19;
- vi. Proposed changes are not required under any rule of the Director to be processed as a significant modification;

Notwithstanding subparagraph 45CSR§30-6.5.a.1.A. (items i through vi above), minor permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in rules of the Director which are approved by the U.S. EPA as a part of the State Implementation Plan under the Clean Air Act, or which may be otherwise provided for in the Title V operating permit issued under 45CSR30.

Pursuant to 45CSR§30-6.5.a.2.C., the proposed modification contained herein meets the criteria for use of Minor permit modification procedures as set forth in Section 45CSR§30-6.5.a.1.A. The use of Minor permit modification procedures are hereby requested for processing of this application.

(Signed):  Date: 2 / 16 / 16
(Please use blue ink) (Please use blue ink)

Named (typed): Patrick C. Myers Title: Plant Manager

Note: Please check if the following included (if applicable):

<input type="checkbox"/>	Compliance Assurance Monitoring Form(s)
<input checked="" type="checkbox"/>	Suggested Title V Draft Permit Language

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

*West Virginia Department of Environmental Protection
Division of Air Quality*

Field Code Changed

*Earl Ray Tomblin
Governor*

*Randy C. Huffman
Cabinet Secretary*

Permit to



Operate

*Pursuant to
Title V
of the Clean Air Act*

Issued to:
**Appalachian Power Company
Ceredo Generating Station
R30-09900081-2013**

*John A. Benedict
Director*

Issued: May 7, 2013 • Effective: May 20, 2013
Expiration: May 7, 2018 • Renewal Application Due: November 7, 2017

Permit Number: **R30-09900081-2013**
Permittee: **Appalachian Power Company**
Facility Name: **Ceredo Generating Station**
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 C 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: Ceredo, Wayne County, West Virginia
Facility Mailing Address: 1662 Walker Branch Road, Huntington, WV 25704
Telephone Number: (304) 528-7190
Type of Business Entity: Corporation
Facility Description: Electric Generating Station
SIC Code: 4911
UTM Coordinates: 365.97 km Easting \$ 4247.45 km Northing \$ Zone 17

Field Code Changed

Permit Writer: Bobbie Scroggie

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.

55

Table of Contents

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Source-specific Requirements

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5.0. Fuel Gas Heater Requirements 25

APPENDIX A (CAIR Permit Application)

Field Code Changed

APPENDIX B (Permit R13-2382 Attachments)

Field Code Changed

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	Design Capacity	Control Device
1E	1S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1,215 mmBtu/hr	CO Catalyst 1C
2E	2S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1,215 mmBtu/hr	CO Catalyst 2C
3E	3S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1,215 mmBtu/hr	CO Catalyst 3C
4E	4S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1,215 mmBtu/hr	CO Catalyst 4C
5E	5S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1,215 mmBtu/hr	CO Catalyst 5C
6E	6S	Combustion Turbine, General Electric Model MS 7001 EA/PG7121(EA)	2000	1,215 mmBtu/hr	CO Catalyst 6C
7E	7S	Fuel Gas Heater, Heatec, Inc. Model H100-315	2000	14.2 mmBtu/hr	None

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
R13-2382C	02/13/2009

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	NSPS	New Source Performance Standards
CBI	Confidential Business Information	PM	Particulate Matter
CEM	Continuous Emission Monitor	PM ₁₀	Particulate Matter less than 10µm in diameter
CES	Certified Emission Statement	pph	Pounds per Hour
C.F.R. or CFR	Code of Federal Regulations	ppm	Parts per Million
CO	Carbon Monoxide	PSD	Prevention of Significant Deterioration
C.S.R. or CSR	Codes of State Rules	psi	Pounds per Square Inch
DAQ	Division of Air Quality	SIC	Standard Industrial Classification
DEP	Department of Environmental Protection	SIP	State Implementation Plan
FOIA	Freedom of Information Act	SO ₂	Sulfur Dioxide
HAP	Hazardous Air Pollutant	TAP	Toxic Air Pollutant
HON	Hazardous Organic NESHAP	TPY	Tons per Year
HP	Horsepower	TRS	Total Reduced Sulfur
lbs/hr or lb/hr	Pounds per Hour	TSP	Total Suspended Particulate
LDAR	Leak Detection and Repair	USEPA	United States Environmental Protection Agency
m	Thousand	UTM	Universal Transverse Mercator
MACT	Maximum Achievable Control Technology	VEE	Visual Emissions Evaluation
mm	Million	VOC	Volatile Organic Compounds
mmBtu/hr	Million British Thermal Units per Hour		
mmft ³ /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		
NO _x	Nitrogen Oxides		

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.]

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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:
 - a. 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.
 - 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.
 - c. 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.
 - d. 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.

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- 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:

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- 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.

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[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. **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]
- 3.1.6. **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)]
- 3.1.7. **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.
 - 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]

3.1.8. **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]

~~3.1.9. CAIR NO_x Annual Trading Program (Emission Units IE – 6E). The permittee shall comply with the standard requirements set forth in the attached CAIR Permit Application (see Appendix A) and the CAIR permit requirements set forth in 45CSR39 for each CAIR NO_x Annual source. The complete CAIR Permit Application shall be the CAIR Permit portion of the Title V permit administered in accordance with 45CSR30.
[45CSR§§39-6.1.b. and 20.1.]~~

~~a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§39-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR39, 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.]~~

~~b. Except as provided in 45CSR§39-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30.
[45CSR§39-24.1.]~~

~~3.1.10. CAIR NO_x Ozone Season Trading Program (Emission Units IE – 6E). The permittee shall comply with the standard requirements set forth in the attached CAIR Permit Application (see Appendix A) and the CAIR permit requirements set forth in 45CSR40 for each CAIR NO_x Ozone Season source. The complete CAIR Permit Application shall be the CAIR Permit portion of the Title V permit administered in accordance with 45CSR30.
[45CSR§§40-6.1.b. and 20.1.]~~

~~a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§40-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR40, 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.]~~

~~b. Except as provided in 45CSR§40-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30.
[45CSR§40-24.1.]~~

~~3.1.11. CAIR SO₂ Trading Program (Emission Units IE – 6E). The permittee shall comply with the standard requirements set forth in the attached CAIR Permit Application (see Appendix A) and the CAIR permit requirements set forth in 45CSR41 for each CAIR SO₂ source. The complete CAIR Permit Application shall be the CAIR Permit portion of the Title V permit administered in accordance with 45CSR30.
[45CSR§§41-6.1.b. and 20.1.]~~

~~a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§41-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR41, 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.]~~

~~b. Except as provided in 45CSR§41-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR20. [45CSR§41-24.1.]~~

Incorporate References to Current Applicable Transport Rule

3.2. Monitoring Requirements

3.2.1. None.

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

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1. The permit or rule evaluated, with the citation number and language.
2. The result of the test for each permit or rule condition.
3. A statement of compliance or non-compliance with each permit or rule condition.
[WV Code §§ 22-5-4(a)(14-15) 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.]

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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. Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5 below, 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:

Director
WVDEP
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0475
FAX: 304/926-0478

If to the US EPA:

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

3.5.4. **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 annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: R3_APD_Permits@epa.gov. 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.

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. None.

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.

4.0 Combustion Turbine Requirements [Emission units 1E through 6E]

4.1. Limitations and Standards

- 4.1.1. Sulfur content of the fuel combusted in the turbines shall not exceed 0.8 percent by weight. [45CSR16, 40 C.F.R. § 60.333(b) and 45CSR13, R13-2382, B.7.]
- 4.1.2. Nitrogen Oxides emissions from the turbine stacks shall not exceed 100 parts per million by volume on a dry basis at 15% oxygen. [45CSR16, 40 C.F.R. § 60.332(a)(1) and 45CSR13, R13-2382, B.7.]
- 4.1.3. At all times, including periods of startup, shutdown, and malfunction, the turbines and associated CO oxidation catalysts shall be, to the extent practicable, maintained and operated in a manner consistent with good air pollution practice for minimizing emissions. [45CSR16, 40 C.F.R. § 60.11(d) and 45CSR13, R13-2382, B.7.]
- 4.1.4. Emissions from the turbine stacks shall not exceed the following limits except during periods of startup and shutdown. Compliance with the annual emission limits shall be demonstrated using a 12 month rolling total.

Pollutant	lbs/hr (each stack)	tons/year (total for all stacks)
NO _x	40	245.3
Sulfur Dioxide	5	5.0
PM-10	17	83.3
VOCs	4	13.6
CO	47	240.2
CO (without CO catalyst)	94	240.2
HAPs	1.0	7.4

Compliance with this streamlined SO₂ limit assures compliance with 45CSR§10-4.1. [45CSR13, R13-2382, A.1. and A.2.]

- 4.1.5. Combustion turbines shall not combust more than 12 x 10⁹ scf/yr of fuel cumulatively on a rolling 12 month basis unless Continuous Emission Monitors (CEM's) for NO_x are installed and operating. [45CSR13, R13-2382, A.3.]
- 4.1.6. ~~CO oxidation catalysts, identified in permit application R13-2382A as 1C, 2C, 3C, 4C, 5C, and 6C, shall be installed, maintained, and operated so as to achieve a minimum 50.00% destruction efficiency in the control of Carbon Monoxide emissions from the turbines. The CO oxidation catalysts shall be utilized at all times except in the case of failure of the catalyst. In the event of failure of the catalyst, the permittee shall notify the Division of Air Quality within 24 hours. In no case shall the facility operate without the use of CO oxidation catalysts for more than 2,688 turbine-hours per year based on a rolling yearly total. Additionally, in no case shall the emission limitations set forth in 4.1.4. be exceeded except for hourly CO emissions which shall not exceed 94 lbs/hr during periods of catalyst failure.~~ [45CSR13, R13-2382, A.4.]
- 4.1.7. The sulfur content of the gas being fired shall not exceed 1.32 grains/100 scf. [45CSR13, R13-2382, A.5.]
- 4.1.8. Combined hours of operation for the six turbines shall not exceed 15,150 hours per year unless Continuous Emission Monitors (CEM's) for NO_x are installed and operating. Compliance with this limit shall be determined using a 12 month rolling average. [45CSR13, R13-2382, A.6.]

4.1.9. The gas turbines 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:

Field Code Changed

1. Hold an Acid Rain permit;
2. 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;
3. Comply with the applicable Acid Rain emissions for sulfur dioxide;
4. Comply with the applicable Acid Rain emissions for nitrogen oxides;
5. 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;
6. 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 and 40 C.F.R. Parts 72, 73, 74, 75, 76, 77, 78]

4.2. Monitoring Requirements

4.2.1. The owners and operators of this facility shall comply with monitoring requirements as found in 40 C.F.R. 75. In lieu of continuous emission monitoring, the facility will demonstrate compliance with SO₂, NO_x, and CO emissions from the gas turbines following the procedures outlined in 40 C.F.R. 75.
 [45CSR33 and 40 C.F.R. § 72.9(b)(1)]

4.2.2. In order to demonstrate compliance with the sulfur content limits of sections 4.1.1. and 4.1.7., along with the NO_x emission limit of 4.1.2., the sulfur content and nitrogen content of the fuel being fired in the turbines shall be monitored per the following custom schedule approved by the Administrator:

1. Monitoring of fuel nitrogen content is not required while pipeline quality natural gas is the only fuel being fired in gas turbines.
2. Monitoring of fuel sulfur content:
 - a. Sulfur monitoring of the natural gas shall be performed once per ozone season using one of the approved ASTM methods or an approved alternative method. The reference methods are ASTM D1072-80, ASTM 3031-80, ASTM 3246-81, ASTM 4084-82 (referenced in §60.335(b)(2)) and the approved alternate method ASTM 6667-01.
 - b. Should any sulfur analysis required in section 4.2.2.2.a. indicate a noncompliance with 40 CFR §60.333, the owner/operator shall notify the EPA Regional Office Air Division and the WV DEP of such excess emissions and the custom schedule shall be re-examined by the EPA. Sulfur analysis shall be conducted weekly during the interim period while this custom schedule is being re-examined.
3. If there is a change in fuel supply, the owner or operator must notify the EPA and the WV DEP of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
4. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of five years, and be available to the Director or his duly authorized representative upon request.

Where appropriate, the owner or operator of a fuel burning units(s) may maintain such records in electronic form.

- 5. Because all six (6) turbines will share a common fuel supply, only one fuel gas sample need be collected and analyzed for all six turbines for compliance with Subpart GG.

[45CSR16, 40 C.F.R. § 60.334(b), 45CSR13, R13-2382, B.7. , May 11, 2001 letter from EPA's Judith Katz "Re: Request for Custom Fuel Monitoring Schedule under Subpart GG of NSPS" and September 19, 2002 letter from EPA's Conniesue B. Oldham]

Field Code Changed

- 4.2.3. The following parameters are to be monitored for purposes of demonstrating compliance with the Acid Rain Program requirements and the emission limits found in section 4.1.4.

- a. Inlet Guide Vane Position in degrees
- b. Exhaust Temperature in ° F
- c. Combustion Reference Temperature ° F
- d. Fuel Gas Split Set Point
- e. Qv - Pipeline Natural Gas (PNG) Fuel Flow in scf/hr
- f. GCV - Fuel heat content (Btu/100scf)
- g. Online/Offline Signal
- h. Megawatt Load

[45CSR33, 40 CFR 75, Appendix D, E, G and 45CSR§30-5.1.c.]

- 4.2.4. **CAM monitoring requirement.** The permittee shall calibrate, maintain, and operate a temperature monitoring system with recorder consisting of 18 thermocouples to determine "calculated Turbine Exhaust Temperature Median Corrected by Average" at each Turbine Exhaust Diffuser. The thermocouples used in the monitoring system are to be accurate within ±1% in degrees Fahrenheit per the thermocouple manufacturers published performance criteria. Sixteen of the eighteen thermocouples must be in operation at all times. The turbine will automatically shut down if three thermocouples are reading improperly. [45CSR§30-5.1.c. and 40 C.F.R. §§64.3(a), 64.3(b) and 64.6(c)(2)]

- 4.2.5. **CAM monitoring requirement.** Compliance with the CO hourly emission limits set forth in Requirement 4.1.4. will be demonstrated if the "calculated Turbine Exhaust Temperature Median Corrected by Average" generated by the control system as per Requirement 4.2.4. is maintained at or above a minimum of 865 degree F during normal operations (not including periods of system startup, shutdown or maintenance). An excursion shall be defined as: if during normal operation, the 1-hour average of the "calculated Turbine Exhaust Temperature Median Corrected by Average" drops below 865°F. Excursions trigger an alarm, an inspection, evaluation and corrective action. The monitoring system shall collect the Turbine Exhaust Temperature, and record a 1-hour average of that temperature during the normal operating periods. [45CSR§30-12.7. and 40 C.F.R. §§64.3(a), 64.3(b) and 64.6(c)(2)]

- 4.2.6. a. **Proper maintenance.** At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

Field Code Changed

- b. **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.

- c. **Response to excursions or exceedances.** Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). 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.
 - d. **Documentation of need for improved monitoring.** After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the permitting authority and, if necessary, submit a proposed modification to the part 70 or 71 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(b), 64.7(c), 64.7(d)(1) and 64.7(e)]

Field Code Changed

4.3. Testing Requirements

- 4.3.1. In lieu of CEMs, emission compliance tests of the Ceredo combustion turbines are due prior to the earlier of 3000 hours of operation of an individual unit or the 5-year anniversary and renewal of this operating permit. Stack testing will be conducted on each of three representative combustion turbines to determine NO_x and CO emissions, ~~and CO oxidation catalyst performance~~ in accordance with the test protocol in Appendix A of the Acid Rain Program Monitoring Plan; the QA/QC information in section 6.6.2 must be recorded during testing. The results of the testing shall be used to demonstrate compliance with the NO_x emissions limits of 4.1.2. and 4.1.4. ~~as well as the minimum destruction efficiency limit for the CO oxidation catalysts in section 4.1.6.~~
- [45CSR33, 40 CFR 75, and 45CSR13, R13-2382, B.15.]

Field Code Changed

Comment [A1]: Not sure whether this is a typo? Is it even necessary to reference a document that defines some list of information to be recorded. Typically, the list of monitored information is simply provided in the proposed test protocol. The DAQ always has the option to request a modification to the protocol to include specific information. Not sure why this testing requirement is written like this. If there is a specific minimum list of data to be monitored during the test, it would seem to be better to list it here rather than refer to some external document. Is it possible that this permit condition should have referenced permit condition 4.2.3

4.4. Recordkeeping Requirements

- 4.4.1. Compliance with the mass emission limits of section 4.1.4. shall be demonstrated by performing the following calculations every month for the parameters monitored in 4.2.3. Each of the mass emissions will then be averaged on a monthly basis recorded and will then be used to create the monthly and 12-month rolling average emission reports.

Heat Input Calculation $HI = (Q_v * GCV) / 10^6$

Where HI = heat input in mmBtu/hr
 Q_v = volumetric fuel flow in 100scf/hr
 GCV = Btu/100scf

NO_x Emission Rate $NO_x \text{ PPH} = NO_x * HI$

Where $NO_x PPH = NO_x \text{ emissions in lbs/hr}$
 $NO_x = NO_x \text{ emissions in lbs/mmBtu as calculated according to the requirements of 4.2.1.}$
 $HI = \text{heat input in mmBtu/hr}$

During Startup: 21.6 minutes after flame-on is detected, add 14.6 lb to the total.

SO₂ Emission Rate $M SO_2 = HI * ER SO_2$

Where $M SO_2 = \text{mass emission for } SO_2 \text{ in lbs/hr}$
 $ER SO_2 = \text{default emission rate for } SO_2 \text{ (0.0006 lb/mmBtu for natural gas)}$
 $HI = \text{heat input in mmBtu/hr}$

PM₁₀ Emission Rate Use the following rules to track the PM₁₀ mass emissions

1. PM₁₀ emissions upstream of the CO catalyst will be 10 lbs/hr at all times.
2. The mass emission rates from SO₂ oxidation to H₂SO₄ is calculated by multiplying the SO₂ emission by the ratio of the molecular weights: SO₂ (lbs/hr) * (98/64).
3. PM₁₀ emissions are calculated as the sum of the upstream PM₁₀ emissions (1) and the resulting emissions from SO₂ oxidation to H₂SO₄ (2).

VOC Emission Rate VOC emissions are tracked in one of the two following ways:

1. For compressor inlet temperatures greater than or equal to 59°F, multiply the heat input (mmBtu/hr) by 0.002 lb/mmBtu.
2. For compressor inlet temperatures less than 59°F, multiply the heat input (mmBtu/hr) by 0.003 lb/mmBtu.

CO Emission Rate

1. For compressor inlet temperatures greater than or equal to 59°F OR when the turbines reach base load, multiply the heat input (mmBtu/hr) by 0.027 lb/mmBtu.
2. For compressor inlet temperatures greater than or equal to 59°F OR when the turbines reach base load, multiply the heat input (mmBtu/hr) by 0.054 lb/mmBtu when operating without the CO catalyst.
3. For compressor inlet temperatures less than 59°F AND the turbines are at less than base load, multiply the heat input (mmBtu/hr) by 0.048 lb/mmBtu.
4. For compressor inlet temperatures less than 59°F AND the turbines are at less than base load, multiply the heat input (mmBtu/hr) by 0.096 lb/mmBtu when operating without the CO catalyst.
5. For each startup (defined as 21.6 minutes after flame-on is detected), add 25.5 lb to the total and add 51.0 lb to the total when operating without a catalyst.

HAPs Emission Rate

Multiply the heat input (HI) rate determined above by each of the emission factors (lbs/mmBtu) in the table below to track all of the HAP components.

1,3-Butadiene	4.3 x 10 ⁻⁷
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Acetaldehyde	7.8 x 10 ⁻⁵
Acrolein	7.7 x 10 ⁻⁶
Benzene	1.4 x 10 ⁻⁴
Ethylbenzene	2.4 x 10 ⁻⁵
Formaldehyde	2.9 x 10 ⁻⁵
Napthalene	1.4 x 10 ⁻⁴
NDMA (N-nitrosodimethylamine)	2.3 x 10 ⁻⁷
NMOR (N-nitrosomorpholine)	2.3 x 10 ⁻⁷
PAH's (Polycyclic Aromatic Hydrocarbons)	1.8 x 10 ⁻⁴
Propylene Oxide	2.8 x 10 ⁻⁵
Toluene	1.3 x 10 ⁻⁴
Trimethylamine (TMA)	1.7 x 10 ⁻⁷
Xylene	2.6 x 10 ⁻⁵
Arsenic	4.8 x 10 ⁻⁸
Cadmium	8.2 x 10 ⁻⁷
Chromium-VI	1.3 x 10 ⁻⁶
Lead	1.6 x 10 ⁻⁵
Manganese	1.6 x 10 ⁻⁶
Mercury	4.3 x 10 ⁻⁷

[45CSR§30-5.1.c.]

4.4.2. For the purposes of determining compliance with the maximum fuel combustion limits set forth in 4.1.5., the applicant shall maintain certified daily records, utilizing the form identified as Attachment A (Appendix B of this permit). Such records shall be retained on-site by the permittee for at least five (5) years. Certified records shall be made available to the Director or his or her duly authorized representative upon request.

[45CSR13, R13-2382, B.11]

Field Code Changed

4.4.3. For the purposes of determining compliance with maximum hours of operation for the natural gas turbines set forth in 4.1.8., the applicant shall maintain certified daily records, utilizing the form identified as Attachment B (Appendix B of this permit). Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his or her duly authorized representative upon request.

[45CSR13, R13-2382, B.12.]

4.4.4. For the purposes of determining compliance with the maximum hours that the facility may operate the turbines without the use of the CO oxidation catalysts specified in 4.1.6., the permittee shall maintain certified daily records, utilizing the form identified as Attachment C (Appendix B of this permit). Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his or her duly authorized representative upon request.

[45CSR13, R13-2382, B.16.]

4.4.5. General Recordkeeping Requirements for 40 C.F.R. Part 64 (CAM)

1. The "calculated Turbine Exhaust Temperature Median Corrected by Average" determined per Requirement 4.2.5. shall be recorded hourly.
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 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).
3. Instead of paper records, the permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

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

Field Code Changed

4.5. Reporting Requirements

4.5.1. General Reporting Requirements for 40 C.F.R. Part 64 (CAM)

1. 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. Part 64, the permittee shall submit monitoring reports to the Director in accordance with permit condition 3.5.6.
2. A report for monitoring under 40 C.F.R. Part 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); 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)]

4.6. Compliance Plan

- 4.6.1. None.

5.0 Fuel Gas Heater Requirements [Emission Unit ID 7E]

5.1. Limitations and Standards

- 5.1.1. Emissions of smoke and/or particulate matter shall not exceed 10% opacity based on a six minute block average.
[45CSR§2-3.1. and 45CSR13, R13-2382, B.2.]
- 5.1.2. Particulate matter emissions shall not exceed 1.28 lbs/hr.
[45CSR§2-4.1.b. and 45CSR13, R13-2382, B.2.]
- 5.1.3. Sulfur dioxide emissions shall not exceed 45.50 lbs/hr.
[45CSR§10-3.3.f. and 45CSR13, R13-2382, B.3.]
- 5.1.4. The fuel gas heater located on-site shall not combust more than 49.8×10^6 scf/yr of fuel cumulatively on a rolling 12 month basis.
[45CSR13, R13-2382, A.7.]

5.2. Monitoring Requirements

- 5.2.1. None.

5.3. Testing Requirements

- 5.3.1. None.

5.4. Recordkeeping Requirements

- 5.4.1. Compliance with the particulate matter and sulfur dioxide emission limits of 5.1.2 and 5.1.3 shall be demonstrated by maintaining daily records of the operating schedule (operating hours per day) and the quantity of fuel consumed in the fuel gas heater on a daily basis. Sulfur content of the fuel will be monitored once a year in the form of fuel sulfur content certification from the fuel supplier. Such records are to be maintained on-site for a period of two years following the date of such record and made available to the Director or his duly authorized representative upon request. Where appropriate the owner or operator of a fuel burning units(s) may maintain such records in electronic form.

Compliance with monitoring of fuel sulfur content for combustion turbines (Requirement 4.2.2.) may be used to demonstrate compliance with fuel sulfur content monitoring in this Requirement if the name of the supplier of the fuel, the potential sulfur emissions rate of the fuel in ng/J heat input, and the method used to determine the potential sulfur emissions rate of the fuel are included in the fuel sulfur content certification from the fuel supplier.

[45CSR16, 45CSR§2-8.3.c., 45CSR§2-8.3.d., 45CSR§2A-7.1.a. and 7.1.a.1., 40 C.F.R. § 60.48c(f), 40 C.F.R. § 60.48c(g) and 40 C.F.R. § 60.48c(i).]

- 5.4.2. For the purposes of determining compliance with the maximum fuel combustion limits set forth in 5.1.4., the facility shall maintain certified daily records, utilizing the form identified as Attachment A (Appendix B of this permit). Such records shall be retained on-site by the permittee for at least five (5) years. Certified records shall be made available to the Director or his or her duly authorized representative upon request.
[45CSR13, R13-2382, B.11.]

5.5. Reporting Requirements

- 5.5.1. The permittee shall report to the Director any malfunction of a fuel burning unit (fuel gas heater) which results in any excess particulate matter emission rate or excess opacity.
 - a. Excess opacity periods meeting the following conditions may be reported on a quarterly basis unless otherwise required by the Director:
 - 1. The excess opacity period does not exceed thirty (30) minutes within any 24-hour period; and
 - 2. Excess opacity does not exceed 40%.
 - b. The owner or operator shall report to the Director any malfunction resulting in excess particulate matter or excess opacity, not meeting the criteria set forth in 5.4.1.a, by telephone, telefax, or e-mail 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 Director within thirty (30) days providing the following information.
 - 1. A detailed explanation of the factors involved or causes of the malfunction;
 - 2. The date and time of during (with starting and ending times) of the period of excess emissions;
 - 3. An estimate of the mass of excess emissions discharged during the malfunction;
 - 4. The maximum opacity measured or observed during the malfunction;
 - 5. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and
 - 6. 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.]
- 5.5.2. The reporting period for the reports required under 5.4.1. is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.
[45CSR16, and 40 C.F.R. § 60.48c(j)]

5.6. Compliance Plan

- 5.6.1. None.

B1

APPENDIX A

CAIR Permit Application

Cerco Generating Station
Plant Name

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 45CSR30, 45CSR40 and 45CSR41 (as applicable).

(2) The emissions measurements recorded and reported in accordance with sections 70 through 75 of 45CSR30, 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§30-6.3, 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§39-5.1 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 45CSR38.

(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.c of 45CSR38, 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 52, and 80 through 86 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§40-5.1 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 52, 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 subdivisions 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.c 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 52, 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 **Ceredo Generating Station**

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.

(2) 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.

(3) All emissions monitoring information, in accordance with sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable), provided that in the event 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.

(4) 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).

(5) 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).

(6) 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.

Ceredo Generating Station

Plant Name

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	Date
<i>John M. McManus</i>	5/25/07

APPENDIX B - Permit R13-2382 Attachments

Attachment A
Natural Gas Usage
Twelvepole Creek
Plant ID No.: 099-00081
Permit No.: R13-2382
Month _____ Year _____

Day	Amount of Natural Gas used in fuel gas heater (scf)	Amount of Natural Gas Used in combustion turbines (scf)	Initials*
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Total			

Note: *At the conclusion of filing in the required information each entry must be initialed by the individual entering the information

Rolling Yearly Total _____ scf (turbines)

Rolling Yearly Total _____ scf (heater)

* The Certification of Date Accuracy statement on the reverse side of this form must be completed and signed by a responsible official within fifteen (15) days after the end of the calendar month. This record shall be maintained on site for a period of five (5) years for the date of certification. It shall be made available, upon request, to the Chief or his/her authorized representative.

Attachment B
Turbine & Fire Pump Engine Usage
Twelvepole Creek
 Plant ID No.: 099-00081
 Permit No.: R13-2382
 Month _____ Year _____

Day	Number of Hours of Turbine Usage (all 6 turbines combined)	Number of Hours of Fire Pump Engine Usage	Initials*
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Total			

Note: *At the conclusion of filing in the required information each entry must be initialed by the individual entering the information

Rolling Yearly Total _____ Hours (Turbines)
 Rolling Yearly Total _____ Hours (Fire Pump Engine)

* The Certification of Data Accuracy statement on the reverse side of this form must be completed and signed by a responsible official within fifteen (15) days after the end of the calendar month. This record shall be maintained on site for a period of five (5) years for the date of certification. It shall be made available, upon request, to the Chief or his/her authorized representative.

Attachment C
Turbine Usage Without CO Catalyst
Twelvepole Creek
 Plant ID No.: 099-00081
 Permit No.: R13-2382A
 Month _____ Year _____

Day	Number of Hours Turbine #1 was used without a CO catalyst	Number of Hours Turbine #2 was used without a CO catalyst	Number of Hours Turbine #3 was used without a CO catalyst	Number of Hours Turbine #4 was used without a CO catalyst	Number of Hours Turbine #5 was used without a CO catalyst	Number of Hours Turbine #6 was used without a CO catalyst	Initials*
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
Total							

Note: *At the conclusion of filling in the required information each entry must be initialed by the individual entering the information.

Total Hours for the Month _____ turbine-hours

Rolling Yearly Total _____ turbine-hours

* The Certification of Data Accuracy statement on the reverse side of this form must be completed and signed by a responsible official within fifteen (15) days after the end of the calendar month. This record shall be maintained on site for a period of five (5) years for the date of certification. It shall be made available, upon request, to the Chief or his/her authorized representative.

Application Fee: (enclosed)