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March 11, 2016



Beverly D. McKeone
Senior Engineer
Division of Air Quality, Compliance & Enforcement
West Virginia Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Re: The Marion County Coal Company's Application for a Modification to Permit No. R13-0760E (Effective March 6, 2015) and Corresponding Revisions to Permit R30-04900019-2014 (Effective February 7, 2014)

Dear Ms. McKeone:

Enclosed please find the Marion County Coal Company's application for a modification to its Permit R13-0760E (effective March 6, 2015) for the Marion County Preparation Plant. The permit application requests the following:

- An increase in the permitted sulfur content of the coal used to fuel the thermal dryer;
- A decrease in the maximum allowable heat input capacity of the furnace from 182 MMBTU/hr to 130 MMBTU/hr;
- Correction of the permit limit for the coal bed methane / natural gas fed to the thermal dryer from 3,033 cf/hr and 1.82 million cf/year to 182,000 cf/hr and 1,092 million cf/year;
- Revision of 4.2.5 to specify that use of straightening vanes are only required when conducting a stack test to determine compliance with the permit;
- Removal of 4.5.6 from the permit on the basis that it is inapplicable; and
- Improvements to the physical condition of the thermal dryer's burner to improve the overall functionality of the burner and increase flame stability.

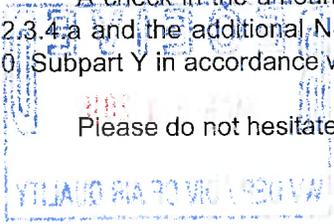
Corresponding revisions to the plant's Permit R30-04900019-2014 (effective February 7, 2014) are requested as well.

March 11, 2016

The proposed modifications are not projected to result in any increase in emissions and, as a result, do not trigger review under the Prevention of Significant Deterioration (PSD) program requirements of the Clean Air Act and West Virginia's implementing regulations. Further, the proposed rebuild of the thermal dryer does not involve "commencement of construction, reconstruction or modification" within the meaning of 40 CFR 60, Subpart Y so as to trigger requirements under that Subpart and West Virginia's implementing regulations.

A check in the amount of \$2,000 to cover the permit application fee provided for in 45 CSR 22.3.4.a and the additional NSPS review fee of \$1,000.00 to determine the applicability of 40 CFR 60 Subpart Y in accordance with 45 CSR 22-3.4.b will be delivered to you separately.

Please do not hesitate to call if you have questions or comments regarding the application.

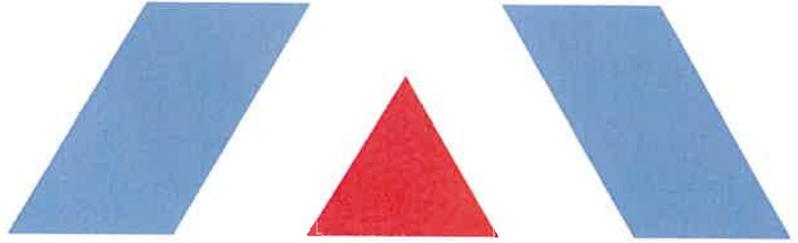


Very truly yours,

C. Crellin Scott

Enclosures

cc: William F. Durham
Jesse D. Adkins
Robert L. Keatley
Joseph R. Kessler



R13 PERMIT MODIFICATION APPLICATION

The Marion County Coal Company
Marion County Preparation Plant



Prepared By:

TRINITY CONSULTANTS
8425 Pulsar Place
Suite 280
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March 2016

Project 153601.0144

Trinity
Consultants

Environmental solutions delivered uncommonly well

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1.1. INTRODUCTION

The Marion County Coal Company (MCCC) operates a coal preparation plant located in Marion County near Fairview, West Virginia (referred to as the Marion County Preparation Plant). Operations at the Marion County Preparation Plant are permitted under a Title 45, Series 13 (45CSR13) construction/modification permit (Permit R13-0760E effective March 6, 2015) and a Title V operating permit (R30-04900019-2014 effective February 7, 2014).

With this application, MCCC is requesting a modification of the plant's R13 and R30 permits to increase the allowable coal sulfur content for the fuel fired by the plant's thermal dryer, to correct a calculation error associated with the natural gas throughput limitation for the thermal dryer, to include updated operational restrictions, and to address certain clerical errors in the existing permits. The application also outlines certain improvements to the physical condition of the thermal dryer's burner that MCCC plans to undertake. While these improvements are not anticipated to increase emissions, they are nonetheless included in this application for review and approval by the West Virginia (WV) Division of Air Quality (DAQ).

1.2. BACKGROUND

MCCC recently notified DAQ that the sulfur content of the coal fired in the thermal dryer is dependent on the seams of coal being mined and that the permitted maximum sulfur content of the fuel will need to be increased from the current limit of 3.4% to 3.9%.¹

Additionally, DAQ recently performed an extended analysis of potential emission rates for nitrogen oxides (NO_x) and volatile organic compounds (VOC) from the thermal dryer.² DAQ concluded that the most recent compliance test conducted in 2011 resulted in pound per million British Thermal Unit (lb/MMBtu) emission rates for NO_x and VOC that may result in exceedances of the permitted pound per hour (lb/hr) emission rates at the unit's maximum permitted capacity (i.e., 182 MMBtu/hr). As noted in the detailed discussion in Section 1.3.2 below, it appears DAQ's conclusions for VOC are incorrectly based on total VOC as opposed to non-methane VOC. However, MCCC concurs with DAQ's conclusion with respect to NO_x. DAQ's analysis further revealed that the R13-0760D permit limit of 3,033 cf/hr and 1.82 million cf/year coal bed methane/natural gas feed to the thermal dryer is an error. The correct permit limits should have been 182,000 cf/hour and 1,092 million cf/year, respectively.

Finally, MCCC's consultant has recommended a number of improvements to the thermal dryer's burner, as described in Section 1.3.4 below.

The remainder of this application presents detailed discussions regarding MCCC's proposed permit updates to address the above topics. Again, and as set forth in further detail below, MCCC is *not* requesting an increase in allowable emissions of any pollutant with this application. However, MCCC is nonetheless proposing that these requested improvements be approved as a 'modification' under 45CSR13.

¹ Coal sulfur content issue originally discussed during a July 31, 2015 meeting between MCCC and DAQ.

² DAQ's analysis provided to Mr. Crellin Scott in an April 14, 2015 e-mail from Mr. Robert Keatley (DAQ).

1.3. PROPOSED PERMIT UPDATES

1.3.1 Coal Sulfur Content

The coal fired in the thermal dryer is the same coal being mined underground by MCCC. Therefore, the fuel sulfur content is dependent on the seam being mined at any given time. MCCC's current projections indicate a need to increase the permitted sulfur content for the coal being combusted in the thermal dryer from 3.4% to 3.9% by weight. MCCC notes that the current annual SO₂ emissions limit in R13-0760E (i.e., 586 tpy) is a synthetic minor Prevention of Deterioration (PSD) limit established in 2007 by the previous owner (i.e., CONSOL Energy [CONSOL]). MCCC is proposing the use of an automated caustic addition system described below to offset the increase in permitted coal sulfur content. Use of this automated system will ensure compliance with the existing limit and continue to obviate the need for PSD review.

MCCC notes that the natural alkalinity of the plant water utilized in the venturi scrubber provides for some level of SO₂ removal. However, the scrubber would not provide adequate control at the maximum coal feed rate and sulfur content requested in this permit to comply with the current permit limits for SO₂. Therefore, to offset any increase in SO₂ emissions associated with increasing the maximum coal sulfur content from 3.4% to 3.9%, MCCC is proposing a more stringent approach than what is currently required in R13-0760E for utilizing the caustic addition system. Doing so will ensure continued compliance with the synthetic minor PSD SO₂ limit.

To first understand the level of control achieved by the scrubber in the absence of caustic, a simple mass balance equation based on process data from the 2011 compliance test can be used:

$$E_{SO2u} = 2.91 \text{ tph} \times 2,000 \left(\frac{\text{lbs}}{\text{ton}} \right) \times \frac{3.3\% \text{ S}}{100} \times \frac{2 \text{ mol SO}_2}{1 \text{ mol S}} = \mathbf{384.2 \text{ lbs/hr}} \quad (EQ-1)$$

Where:

- E_{SO2u} = The expected uncontrolled SO₂ emission rate during the 2011 compliance test (lb/hr);
- 2.91 = The average coal feed rate (tph) to the thermal dryer during the 2011 compliance test;
- 3.3 = The average percent sulfur in the coal, by weight, during the 2011 compliance test; and
- 2 = The number of moles of SO₂ formed for every mol of S.

The expected SO₂ removal efficiency of the venturi scrubber without caustic is then calculated as:

$$C_{SO2} = \frac{384 \frac{\text{lb}}{\text{hr}} - 145 \frac{\text{lb}}{\text{hr}}}{384 \frac{\text{lb}}{\text{hr}}} \times 100 = \mathbf{62.2\%} \quad (EQ-2)$$

Where:

- C_{SO2} = Expected venturi scrubber SO₂ removal efficiency without caustic;
- 384 lb/hr = The expected uncontrolled SO₂ emission rate calculated in EQ-1; and
- 145 lb/hr = The actual SO₂ emission rate from the 2011 compliance test.

In accordance with term 4.2.2 of R13-0760E, MCCC is required to obtain daily composite samples of the coal to be combusted in the thermal dryer. As the coal is being loaded out of the existing storage silos into rail cars, a cross flow cutter takes samples of the coal. These samples are fed into a crusher, after which a secondary cutter takes a sample of the crushed coal; any excess coal is sent back to the rail cars. A typical sample weight is two (2) pounds per thousand ton. The sample is then sent to a laboratory for analysis. MCCC proposes to utilize the sulfur information obtained from the laboratory analysis along with the

approximate scrubber SO₂ removal efficiency absent caustic calculated in EQ-2 to perform daily calculations to determine the maximum coal feed rate that would necessitate the use of caustic to ensure compliance with the applicable permit limits. The equation used for this proposed daily calculation would be as follows:

$$195 \text{ lbs/hr} = X \text{ tph} \times 2,000 \left(\frac{\text{lbs}}{\text{ton}} \right) \times \frac{S}{100} \times \frac{2 \text{ mol SO}_2}{1 \text{ mol S}} \times (1 - C_{\text{SO}_2}) \quad (\text{EQ-3})$$

Where:

- 195 = Current SO₂ permit limit, lbs/hr;
- X = The target coal feed rate above which caustic must be used, tph
- S = The most recent composite coal sulfur content (% by weight); and
- C_{SO2} = The venturi SO₂ removal efficiency in the absence of caustic as calculated in EQ-2.

MCCC would then be solving for 'X' on a daily basis using EQ-3. To further assure compliance with the permitted hourly emission rate, MCCC will conservatively assume the venturi scrubber achieves 55% control of SO₂ in the absence of caustic, despite the results from the 2011 compliance test which indicate SO₂ removal efficiencies between 60-65%.

An example of a typical day would be as follows:

The required daily coal sample is obtained and sent for analysis on Monday. The resultant analysis showing a coal sulfur content of 2.90% by weight is received Tuesday morning. As soon as the results are received, the plant superintendent logs the result into a spreadsheet that calculates a ton per hour (tph) rate above which caustic must be added. The calculation would be as follows:

$$195 \frac{\text{lbs}}{\text{hr}} = X \text{ tph} \times 2,000 \left(\frac{\text{lbs}}{\text{ton}} \right) \times \frac{2.90\% S}{100} \times \frac{2 \text{ mol SO}_2}{1 \text{ mol S}} \times (1 - 55\%) \quad (\text{EQ-4})$$

Where:

- 195 lbs/hr = SO₂ hourly emissions threshold, lbs/hr;
- X = The coal feed rate above which caustic must be used, tph
- 2.90% = The most recent coal sulfur result; and
- 55% = The assumed venturi scrubber SO₂ removal efficiency in the absence of caustic.

Solving for X in the above equation results in a maximum coal feed rate of 3.7 tph. Accordingly, a 20% caustic solution would be added downstream of the venturi scrubber during any times which the coal feed rate to the thermal dryer exceeds 3.7 tph.

The coal feed rate that is solved for in Equations 3 and 4 (above which caustic would be required) will be entered into the plant's programmable logic controller (PLC) on a daily basis. The entire process will be automated such that once the target coal feed rate is entered into the PLC, the caustic addition system will automatically initiate if/when the actual plant coal feed rate (which is also tracked within the PLC) equals or exceeds the target coal feed rate.

Given MCCC's conservative assumption with respect to scrubber SO₂ removal efficiency and the fact that the plant will likely be operating well below the hourly emission limits based on the above equations for

the majority of time, the proposed approach will provide more than sufficient assurance that actual emissions from the unit will be well below permitted limits on both an hourly and annual basis.

1.3.2 Updated Operational Requirements

As noted in Section 1.2 above, DAQ recently performed an extended analysis of potential emission rates for NO_x and VOC from the thermal dryer. DAQ concluded that the lb/MMBtu emission rates from the 2011 compliance test would potentially result in exceedances of the permitted hourly emission limits at the unit's maximum permitted capacity (i.e., 182 MMBtu/hr). MCCC notes that DAQ's conclusions were based on a 0.48 lb/MMBtu emission rate for NO_x and a 0.95 lb/MMBtu emission rate for VOC. MCCC's calculations indicate that the 2011 test resulted in a 0.46 lb/MMBtu emission factor for NO_x, and a 0.38 lb/MMBtu emission factor for VOC. It appears that the difference between DAQ's emission factor and MCCC's calculated emission factor for NO_x is likely due to rounding. With respect to VOC, it appears DAQ's emission rate was based on **total** VOC, as opposed to non-methane VOC, which is the applicable regulated pollutant. Regardless, with this application MCCC is requesting to lower the maximum allowable heat input capacity of the furnace from 182 MMBtu/hr to 130 MMBtu/hr. This revised limit is more reflective of the maximum heat input that the unit could feasibly achieve. At 130 MMBtu/hr, there are no compliance concerns based on the 2011 emission factors.

DAQ's analysis further revealed that the R13-0760D permit limit of 3,033 cf/hr and 1.82 million cf/year coal bed methane/natural gas feed to the thermal dryer is an error. The correct permit limits should have been 182,000 cf/hour and 1,092 million cf/year. Accordingly, MCCC is requesting that DAQ correct the applicable permit limits as part of this application.

1.3.3 Correction of Miscellaneous Permit Errors

MCCC is also requesting a correction to term 4.2.5 of R13-0760E. The referenced term reads:

The permittee shall install flow straightening devices in the stack of the Loveridge fluidized bed thermal dryer to insure that cyclonic flow does not occur.

The above requirement should specify that the straightening vanes are only required while performing a compliance stack test.

Finally, term 4.5.6 of R13-0760E incorporates into the permit the reporting requirements specified in 40 CFR 60.258(b). Specifically, this term requires facilities to submit semiannual reports detailing occurrences when the measurements of the scrubber pressure loss, water supply flow rate, or pH of the wet scrubber liquid vary by more than 10 percent from the average determined during the most recent performance test. MCCC believes that this requirement in NSPS Y is intended to apply only to thermal dryer affected facilities that were constructed, reconstructed, or modified after April 28, 2008. This is clear when comparing 40 CFR 60.256(a), which contains the wet scrubber control device monitoring requirements for dryers constructed, reconstructed, or modified on or before April 28, 2008, and 40 CFR 60.256(b) which contains the monitoring requirements for dryers constructed, reconstructed, or modified after April 28, 2008.

First, there is no requirement to monitor water supply flow rate to the scrubber in 40 CFR 60.256(a). Second, 40 CFR 60.256(b)(2)(iv) contains the following requirement pertaining to the monitoring requirements specified in 40 CFR 60.256(b)(i)-(iii) which seems to be the basis for the reporting requirement in 40 CFR 60.258(b):

An average value for each monitoring parameter must be determined during each performance test. Each monitoring parameter must then be maintained within 10 percent of the value established during the most recent performance test on an operating day average basis.

Given these absences, it seems clear that 40 CFR 60.258(b) is not intended to apply to such units. Accordingly, MCCC requests that DAQ remove this term from the R13 and R30 permits for the Marion County Preparation Plant.

1.3.4 Burner Rebuild

Finally, with this application, MCCC is requesting authorization to implement proposed burner updates recommended by MCCC's consultant to improve the physical condition of the burner. The primary updates include the following:

- Installation of a new SA nozzle;
- Installation of a new coal nozzle with flame holder and air diffuser;
- Shortening of the gas spuds;
- Retracting/re-adjusting depth of the igniter; and
- Adjustment of the flame scanner.

These proposed updates will improve the overall functionality of the burner and will result in increased flame stability. MCCC acknowledges that implementation of these changes may be construed as a "physical change or change in the method of operation" of the dryer relative to recent actual operations. However, MCCC has no information or data to suggest that making these proposed updates which are intended to improve performance of the burner will lead to an increase in emissions of any air pollutant. Emissions of SO₂ result entirely from the oxidation of sulfur contained in the fuel being burned and therefore are unaffected by the proposed changes. Emissions of VOC and particulate matter (PM) are similarly related to the fuel being fired and the coal being dried. MCCC will continue to operate the venturi scrubber for control of PM, and the proposed changes will not result in an increase in emissions of PM or VOC from the unit.

With respect to CO and NO_x, implementation of the suggested updates may actually result in an improvement in emissions. The proposed updates will allow MCCC the ability to better tune the dryer in order to achieve the best balance of CO and NO_x. This will be accomplished through the use of an overfire air system that will limit available oxygen within the combustion zone for as long as possible in order to minimize NO_x formation. The oxygen rich air will then be injected downstream using the overfire air system to allow for complete combustion. By having the ability to control the proportions of combustion air within each zone, MCCC will be able to tune the burner for the optimum balance of CO and NO_x.

Considering all these factors, MCCC is not projecting an increase in emissions of any pollutants as a result of the proposed burner updates.

2. REGULATORY APPLICABILITY

This section documents the applicability determinations made for federal and state air quality regulations that potentially apply to the thermal dryer. Regulations applicable to the unit are also detailed in Attachment D included as part of this application.

MCCC notes that the review presented below is intended to supplement and/or add clarification to the information provided in the WVDEP application forms, which fulfill the requirement to include citations and descriptions of applicable statutory and administrative code requirements. The regulatory discussions are limited to those regulations for which there may be some question of applicability specific to the changes proposed within this application.

2.1. FEDERAL REGULATORY APPLICABILITY

2.1.1. PSD Applicability

The applicability of the PSD permitting requirements is evaluated for proposed construction, reconstruction, and modification projects that result in an emission increase of a regulated New Source Review (NSR) pollutant for which the area is in attainment with the National Ambient Air Quality Standards (NAAQS). Marion County has been designated “in attainment” or “unclassifiable” for all regulated NSR pollutants.³ Coal cleaning plants with thermal dryers are classified as one of the 28 listed source categories in 45CSR14-2.43.a.

The Marion County Preparation Plant is an existing “major” source for the purposes of PSD. Accordingly, any modifications of the facility would be subject to PSD if the modification resulted in an emissions increase of a regulated NSR pollutant in exceedance of the thresholds specified in 45CSR14-2.74a.

As discussed in Section 1, MCCC is not requesting any increase in allowable emissions with this application. However, as provided in 45CSR14-3.4c, the appropriate applicability test for projects that involve existing emission units includes a comparison of the baseline actual emissions (BAE) prior to the proposed modification and projected actual emissions (PAE) following completion of the project. As noted in Section 1.3.4, MCCC does not expect any increase in allowable *or* actual emissions associated with the proposed burner updates. Additionally, the permit updates discussed in Sections 1.3.2 and 1.3.3 are clerical in nature and will not result in an increase in actual emissions of any pollutant. However, MCCC acknowledges that the requested increase in coal sulfur content could lead to an increase in SO₂ emissions when comparing PAE to BAE.

As previously discussed, the current annual SO₂ emission limit in R13-0760E is a synthetic minor PSD limit originally established in R13-0760D. As part of the permitting process for R13-0760D, CONSOL accepted a voluntary limit on annual SO₂ emissions to avoid PSD review for their request to increase the maximum coal sulfur content from 2.5 to 3.4%. Although neither the Clean Air Act (CAA) nor U.S. EPA’s current rules explicitly describe when aggregation of projects is required for the purposes of determining PSD applicability, aggregation is generally appropriate when nominally separate changes or projects can be collectively seen as one change. Given the similarity in nature between the change permitted in R13-0760D and the increase in coal sulfur content requested in this application, MCCC believes it appropriate to treat

³ Attainment designations for West Virginia counties are established in 40 CFR 81.349.

the two (2) changes as a single “project” with respect to PSD. Accordingly, it’s necessary to revisit the PAE to BAE analysis performed in support of R13-0760D.

As noted in the Engineering Evaluation/Fact sheet issued for R13-0760D,⁴ the BAE for SO₂ for that application were determined to be 547 tpy. The allowable SO₂ emissions were then established as BAE + 39 tpy (i.e., 586 tpy) in order to avoid PSD review. Given that MCCC is not requesting an increase in allowable SO₂ emissions as part of this application, the proposed modifications described herein are not subject to PSD review since the potential emissions of SO₂ will remain within 39 tpy of the BAE.

2.2. NEW SOURCE PERFORMANCE STANDARDS (NSPS)

The federal NSPS require new, modified, or reconstructed sources to control emissions to the level that is achievable by the best system of emissions reduction as specified in the provisions of the applicable rule. This section provides applicability determinations for each of the NSPS to which the proposed changes at the Marion County Preparation Plant are potentially subject.

In addition to the specific standards described below, MCCC must also comply with the general provisions of Title 40, Code of Federal Regulations, Part 60 (40 CFR 60), Subpart A, which establish notification, recordkeeping, testing, monitoring, and reporting requirements for any and all sources subject to a particular NSPS.

2.2.1. NSPS Subpart Y - Coal Preparation and Processing

Subpart Y applies to the affected facilities identified in 40 CFR 60.250 which are located at coal preparation plants that process more than 200 tons per day where construction, reconstruction, or modification occurred after October 27, 1974. The thermal dryer at the Marion County Preparation Plant is subject to the requirements established in NSPS Y for dryers constructed, reconstructed, or modified on or before April 28, 2008. As noted elsewhere in this application, there is no increase in potential emissions associated with this application, and the unit is therefore not considered modified as defined in NSPS. Furthermore, the estimated cost to implement the proposed changes to the burner is \$66,000, which is far below 50% of the fixed capital cost that would be required to construct a new dryer. Accordingly, the unit is not considered “reconstructed” due to these changes. For these reasons, the applicability of NSPS Y to the thermal dryer is unchanged with this application.

2.3. WEST VIRGINIA SIP REGULATIONS

This section of the application highlights applicability of specific West Virginia State Implementation Plan (SIP) regulations contained in West Virginia’s Title 45 Legislative Rules that may apply to the proposed changes at the plant. Title 45 is divided into various series, each covering a specific aspect of the state’s air pollution regulatory program. The series that contain requirements that could be applicable to the proposed changes at the Marion County Preparation Plant are discussed in the following paragraphs. West Virginia regulations that are generally applicable to the mine as a whole are not discussed in this application.

⁴ Engineering Evaluation/Fact Sheet for R13-0760D, completed by Joe Kessler, Engineer III, WV DAQ, signed March 24, 2008.

2.3.1. 45CSR10

Series 10 *To Prevent and Control Air Pollution from the Emissions of Sulfur Oxides* limits in-stack SO₂ concentrations of “manufacturing processes”. 45CSR10-4.1 requires that no in-stack SO₂ concentration exceed 2,000 parts per million by volume (ppmv) from any manufacturing process. Based on the worst-case, uncontrolled SO₂ emission rate, the estimated worst-case in-stack SO₂ concentration would be 195 ppmv, or 14.73% of the limit.

2.3.2. 45CSR13

The proposed changes will not result in an increase in allowable emissions of any pollutants from the facility. However, due to the complexity and nature of the review, MCCC expects that DAQ will process this action as a “modification” under 45CSR13.

2.3.3. 45CSR30

The Marion County Preparation Plant is subject to 45CSR30. Accordingly, MCCC is submitting a request contained within Attachment S of this application for concurrent modification of the facility’s R30 operating permit.

3. APPLICATION FORMS

The enclosed permit application forms are being submitted as required by DAQ for a modification application.

MCCC will submit an appropriate check under a separate cover. The check will cover the permit application fee of \$1,000 provided in 45CSR22-3.4.a and the additional NSPS review fee of \$1,000 for the applicability of NSPS Y in accordance with 45CSR22-3.4.b.

GENERAL APPLICATION FORM



EST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
 601 57th Street, SE
 Charleston, WV 25304
 (304) 926-0475
www.dep.wv.gov/daq

**APPLICATION FOR NSR PERMIT
 AND
 TITLE V PERMIT REVISION
 (OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):

CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):

ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

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.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office): <i>Marion County Coal Company</i>		2. Federal Employer ID No. (FEIN): <i>13-2566594</i>	
3. Name of facility (if different from above): <i>Marion County Preparation Plant</i>		4. The applicant is the: <input type="checkbox"/> OWNER <input checked="" type="checkbox"/> OPERATOR <input type="checkbox"/> BOTH	
5A. Applicant's mailing address: <i>46226 National Road W St. Clairsville, OH 43950</i>		5B. Facility's present physical address: <i>Sugar Run Rd Fairview, WV 26570</i>	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - 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 . - 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 .			
7. If applicant is a subsidiary corporation, please provide the name of parent corporation: <i>Murray American Energy, Inc.</i>			
8. Does the applicant own, lease, have an option to buy or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - If YES, please explain: <i>The land occupied by the Facility is owned by MCCC.</i> - If NO, you are not eligible for a permit for this source.			
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.): <i>Underground coal mine and associated preparation plant with a thermal dryer</i>		10. North American Industry Classification System (NAICS) code for the facility: <i>212112</i>	
11A. DAQ Plant ID No. (for existing facilities only): <i>049-00019</i>		11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): <i>R30-04900019-2014(MM01); R13-0760E</i>	



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**.

1. From Fairview, head North on State Route 17.
2. After approximately one mile, turn left onto Sugar Run Rd

12.B. New site address (if applicable):

12C. Nearest city or town:

12D. County:

Fairview

Marion

12.E. UTM Northing (KM): 4,383.9

12F. UTM Easting (KM): 561.6

12G. UTM Zone: 17

13. Briefly describe the proposed change(s) at the facility:

Please see attached application narrative.

14A. Provide the date of anticipated installation or change: *Upon permit issuance*

- If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: *N/A*

14B. Date of anticipated Start-Up if a permit is granted:

Upon permit issuance

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). *See attached.*

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:

Hours Per Day Varies Days Per Week Varies Weeks Per Year Varies

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.

N/A

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**. *See attached.*

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). *See attached.*

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

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). *See attached.*

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

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). *See attached.*

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. NA – no chemical process involved in proposed modifications.

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

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

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

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 type="checkbox"/> General Emission Unit, specify | | |

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

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:

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

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

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**. See attached.

➤ 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. See attached.

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 checked="" 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**. NA – signed by responsible official.

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 _____
(Please use blue ink)

DATE: 03.11.2016
(Please use blue ink)

35B. Printed name of signee: Robert D. Moore		35C. Title: Vice President
35D. E-mail: rmoore@coalsource.com	36E. Phone: 740-338-3100	36F. FAX: 740-338-3416
36A. Printed name of contact person (if different from above): Crellin Scott		36B. Title: Director of Environmental Compliance
36C. E-mail: cscott@coalsource.com	36D. Phone: 740-338-3100	36E. FAX: 740-338-3416

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 checked="" type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input checked="" type="checkbox"/> Attachment D: Regulatory Discussion | <input 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: BUSINESS CERTIFICATE

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**THE MARION COUNTY COAL COMPANY
151 JOHNNY CAKE RD
MANNINGTON, WV 26585-0000**

BUSINESS REGISTRATION ACCOUNT NUMBER: **2291-5651**

This certificate is issued on: **02/20/2014**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

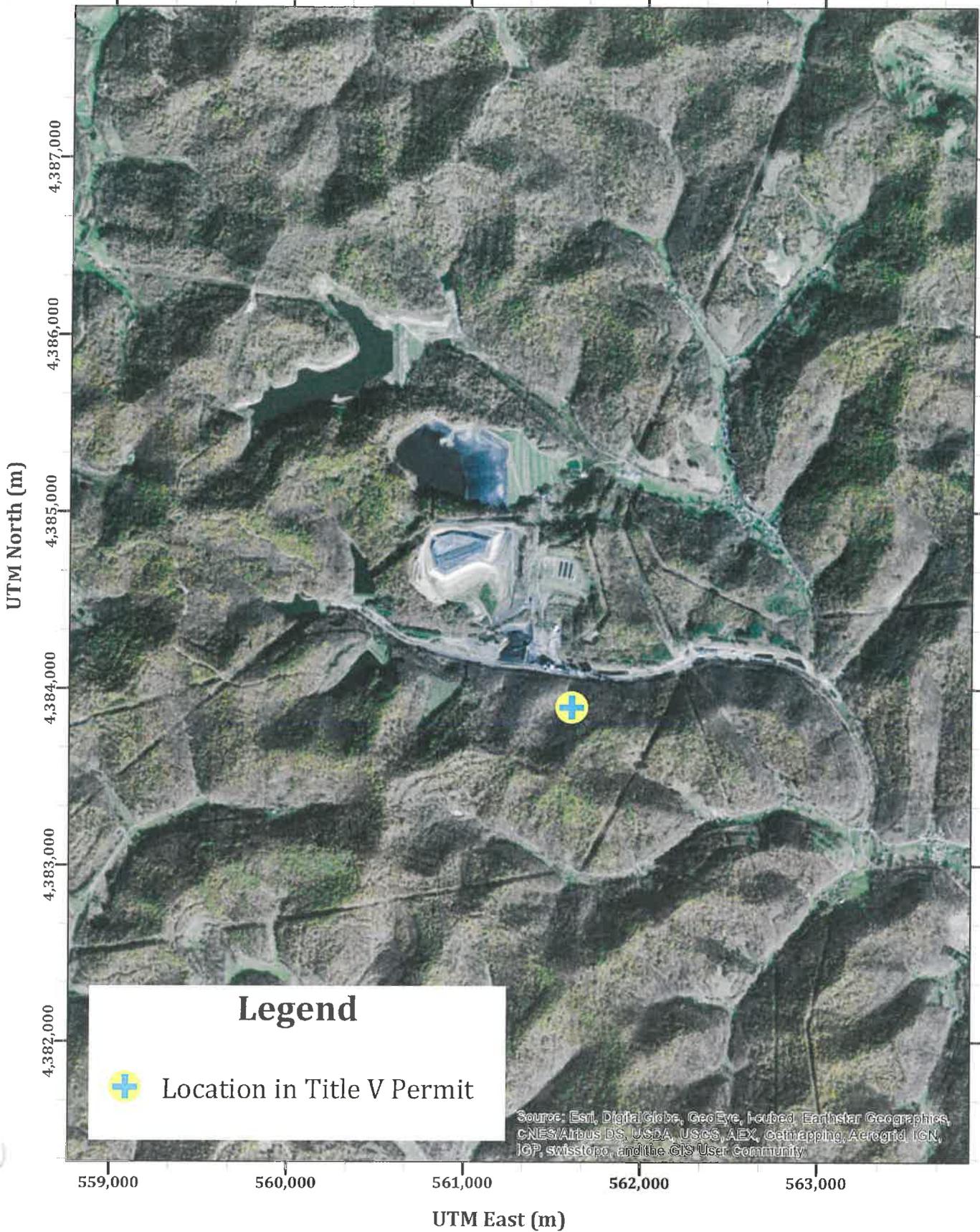
Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

ATTACHMENT B: MAP

Attachment B - Area Map

Marion County Preparation Plant - Marion County Coal Company
Marion County, WV



ATTACHMENT C: INSTALLATION AND STARTUP SCHEDULE

Any construction activities associated with changes proposed in this application will not commence until the revised R13 permit has been issued.

ATTACHMENT D: REGULATORY DISCUSSION

This section documents the applicability determinations made for federal and state air quality regulations. Federal and WVDEP state regulations that are potentially applicable to the Marion County Preparation Plant are listed in Tables D-1 and D-2. Notes are provided for each applicability determination briefly summarizing why each regulation is considered applicable.

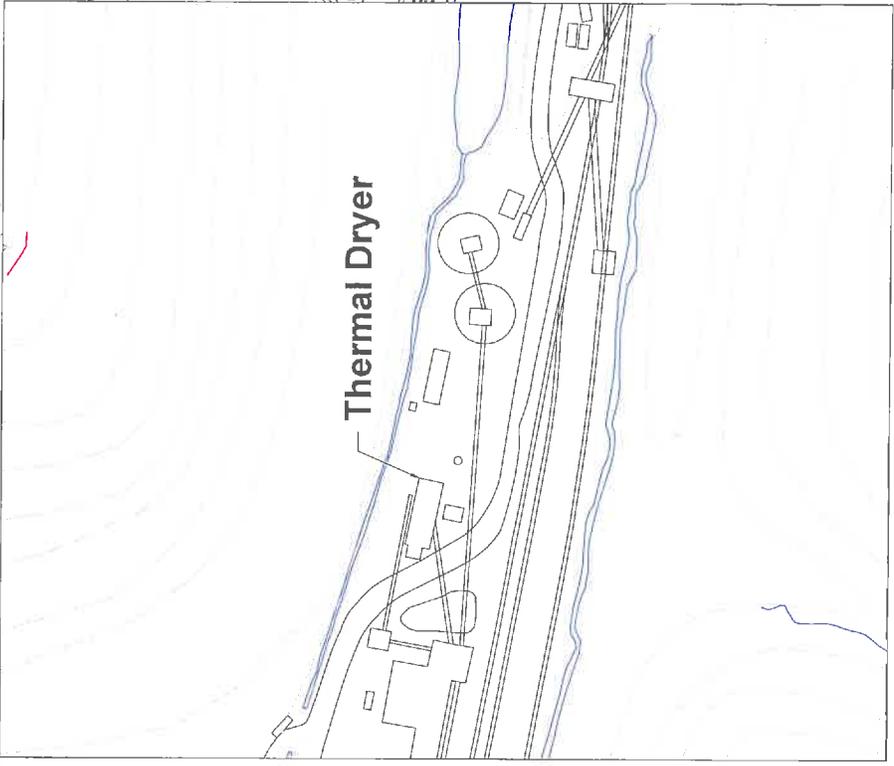
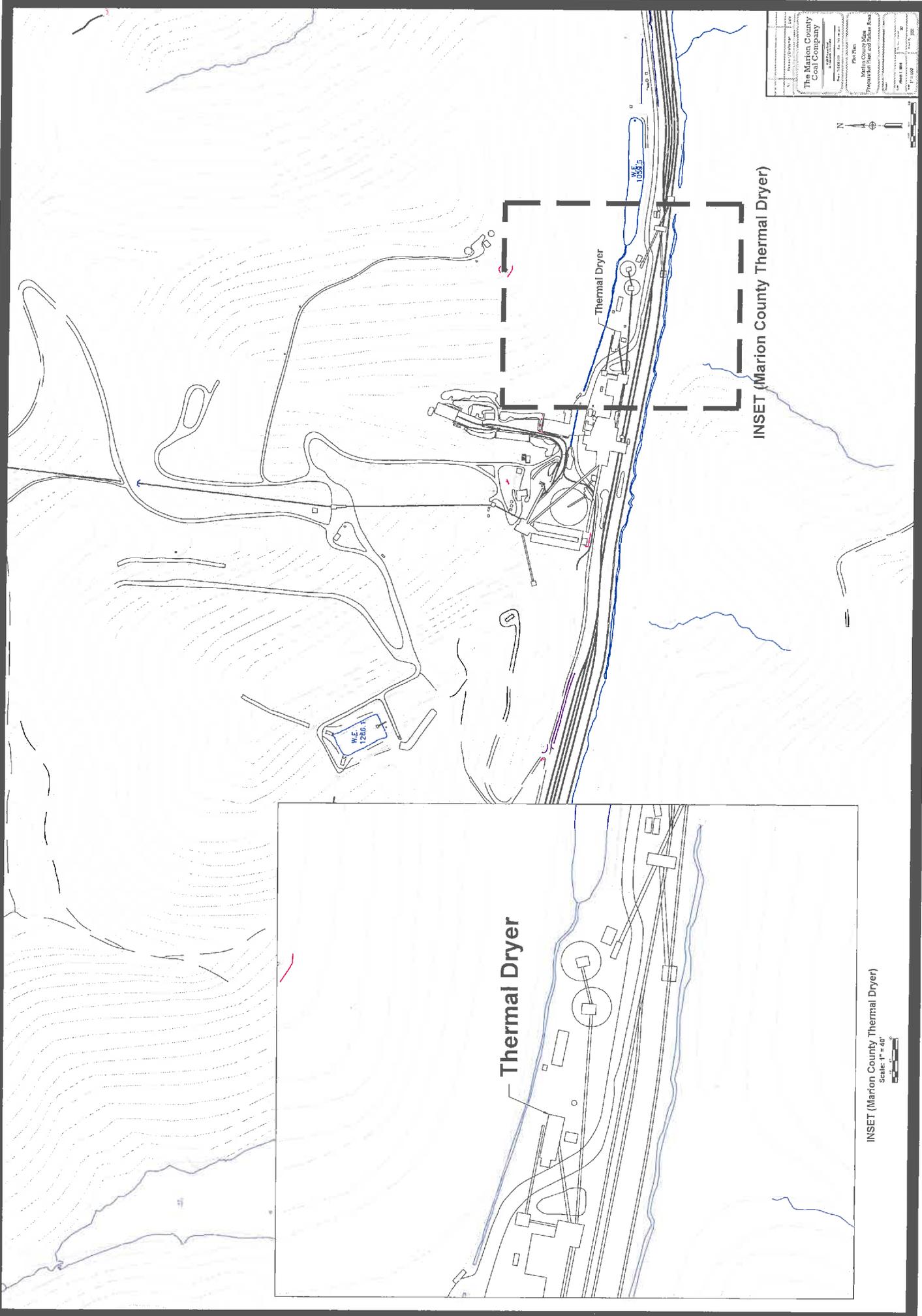
Table D-1. Federal Applicability

Regulation	Applicability
40 CFR 60, Subpart A – “General Provisions”	These general requirements are applicable to stationary sources that are subject to a source-specific NSPS that references 40 CFR 60, Subpart A. MCCC is required to comply with Subpart Y.
40 CFR 60, Subpart Y – “Standards of Performance for Coal Preparation and Processing Plants”	As noted in the application, the thermal dryer is subject to the requirements in 40 CFR 60 Subpart Y that apply to units constructed, reconstructed, or modified on or before April 28, 2008.
40 CFR 70 – “State Operating Programs”	The Marion County Preparation Plant is subject to 45CSR30. Accordingly, MCCC is submitting a request contained within Attachment S of this application for concurrent modification of the facility’s R30 operating permit.

Table D-2. State Rule Applicability

Rule	Applicability
45CSR10 – “To Prevent and Control Air Pollution from the Emission of Sulfur Oxides”	MCCC is subject to 45CSR10 and will maintain the stack SO ₂ concentration below 2,000 ppmv.
45CSR13 – “Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Administrative Updates, Temporary Permits, General Permits, and Procedures for Evaluation”	Generally applicable. MCCC is applying for a modification permit for the proposed changes described herein.
45CSR16 – “Standards of Performance for New Stationary Sources Pursuant to 40 CFR Part 60”	The thermal dryer is subject to NSPS Y. As discussed previously, the applicability of NSPS Y to the thermal dryer will be unchanged with this application.
45CSR22 – “Air Quality Management Fee Program”	Generally applicable.
45CSR30 – “Requirements for Operating Permits”	The Marion County Preparation Plant is subject to 45CSR30. MCCC is submitting a simultaneous request for a minor permit modification to incorporate the proposed updates into the R30 operating permit.

ATTACHMENT E: PLOT PLAN



INSET (Marion County Thermal Dryer)

INSET (Marion County Thermal Dryer)
Scale: 1" = 40'

ATTACHMENT F: PROCESS FLOW DIAGRAM

ATTACHMENT G: PROCESS DESCRIPTION

Coal at the Marion County Preparation Plant is procured from an existing mine portal and is conveyed to a raw coal transfer building. From the raw coal transfer building, coal is conveyed either to storage bin 1 or raw coal stockpile 1. Coal from raw coal stockpile 1 is ultimately reclaimed back to storage bin 1. Coal from storage bin 1 is conveyed to the preparation plant. Two types of material exit the preparation plant. The first type of material is refuse. The refuse is conveyed to two refuse bins and ultimately transferred to the refuse disposal area. The second type of material is clean coal, which is raw coal that has been screened, sized, and washed in the preparation plant. Clean coal is either conveyed to the thermal dryer for drying and then to the clean coal silos or is conveyed directly to the clean coal silos. From the silos, clean coal is conveyed to either the train or truck/railcar loadout points.

With this application, MCCC is requesting permit updates focused on the thermal dryer. However, MCCC is not requesting an increase in allowable emissions of any pollutant.

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
045A/04 5C	P002	Thermal Dryer - ENI Eng. Co. Fluidized Bed Dryer	1985	4.35 tph 26,100 tpy	Mod/2016	Horizontal Venturi Scrubber

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 ⁴)	
		ID No.	Source	ID No.	Device Type	Short Term ² (hr/yr)	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr				
P002	Stack		Thermal Dryer (045A/045C)	Horizontal Venturi Scrubber (SCR1)	N/A	N/A		PM	40.0	120.0	EE	N/A	Solid	EE	N/A	
								SO ₂	195.0	586.0	EE	N/A				
								NO _x	63.6	190.8	EE	N/A				
								VOC	135.6	406.8	EE	N/A				
								CO	57.6	172.8	EE	N/A			EE	N/A

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.

- 1 Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.
- 2 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).
- 3 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, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. **DO NOT LIST** H₂, H₂O, N₂, O₂, and Noble Gases.
- 4 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).
- 5 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).
- 6 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).
- 7 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 L: EMISSIONS UNIT DATA SHEET

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*): 045A/045C

<p>1. Name or type and model of proposed affected source:</p> <p>ENI Engineering Company, Fluidized Bed Dryer</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>Input of wet coal is 600 tph maximum</p>
<p>4. Name(s) and maximum amount of proposed material(s) produced per hour:</p> <p>Thermally dried coal is produced at a maximum rate of 600 tph.</p>
<p>5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:</p> <p>Coal is combusted to generate heat required to dry the wet coal.</p>

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

6. Combustion Data (if applicable):					
(a) Type and amount in appropriate units of fuel(s) to be burned:					
Coal up to 4.35 tons per hour and 26,100 tph Coal Bed Methane up to 182,000 ft ³ /hr and 1,092 mmcf/yr					
(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:					
A purpose of this submittal is to increase the fuel sulfur concentration from a maximum of 3.4 wt.% to 3.9 wt.%. Ash and sulfur in the methane gas is negligible.					
(c) Theoretical combustion air requirement (ACF/unit of fuel):					
N/A	@	N/A	°F and	N/A	psia.
(d) Percent excess air: N/A					
(e) Type and BTU/hr of burners and all other firing equipment planned to be used:					
One (1) Bigelow-Liptak forced draft gas burner limited to 130 MMBtu/hr.					
(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:					
Thermal dryer fuel is provided by the Marion County Prep Plant.					
(g) Proposed maximum design heat input: 130 × 10 ⁶ BTU/hr.					
7. Projected operating schedule:					
Hours/Day	Varies	Days/Week	Varies	Weeks/Year	Varies

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

@	N/A	°F and	N/A	psia
a. NO _x		Unchanged	lb/hr	grains/ACF
b. SO ₂		678.6	lb/hr	grains/ACF
c. CO		Unchanged	lb/hr	grains/ACF
d. PM ₁₀		Unchanged	lb/hr	grains/ACF
e. Hydrocarbons		Unchanged	lb/hr	grains/ACF
f. VOCs		Unchanged	lb/hr	grains/ACF
g. Pb		N/A	lb/hr	grains/ACF
h. Specify other(s)			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 the application narrative and Attachment S for the new monitoring terms proposed as part of this application.

RECORDKEEPING

See the application narrative and Attachment S for the new recordkeeping terms proposed as part of this application.

REPORTING

Reporting will continue to be conducted in accordance with the Title V permit.

TESTING

See Attachment S for the proposed testing requirements

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

N/A

ATTACHMENT N: SUPPORTING EMISSIONS CALCULATIONS

As MCCC is not requesting an increase in allowable emissions of any pollutant with this application, supporting emissions calculations are not required.

ATTACHMENT O: MONITORING, RECORDKEEPING, REPORTING AND TESTING PLANS

Please see Attachment S for MCCC's proposed permit language.

ATTACHMENT P: AFFIDAVIT OF PUBLICATION

Attachment P includes a copy of the public notice MCCC will submit to the Dominion Post for publication. A certificate of publication will be provided to DAQ after the notice has been published.

AIR QUALITY PERMIT MODIFICATION NOTICE
Notice of Application

NOTICE IS GIVEN that the Marion County Coal Company has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a modification of Permit R13-0760E for the Marion County Preparation Plant on Sugar Run Rd., near Fairview, in Marion County, West Virginia. The latitude and longitude coordinates are approximately 39.606, -80.281. The applicant is not requesting and increase in emissions with the application.

Startup of operation is planned to begin on or about the 1st day of July, 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 1227, during normal business hours.

Dated this the XX day of March, 2016.

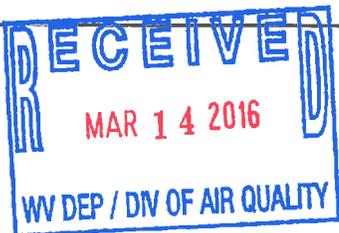
By: Marion County Coal Company
Robert D. Moore
Vice President
46226 National Road W
St. Clairsville, OH 43950
740-338-3100

ATTACHMENT S: TITLE V REVISION

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 checked="" 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 checked="" type="checkbox"/> Section 111 NSPS (Subpart(s) <u>Y</u>)	<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: N/A	

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. N/A
<input type="checkbox"/> 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.

See attached Title V Draft Permit Language.

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
R13-0760E	03/10/2015	
CO-R30-E-2015-1	06/20/2015	1
	/ /	

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
	MM/DD/YYYY	
	/ /	
	/ /	

6. Change in Potential Emissions

Pollutant	Change in Potential Emissions (+ or -), TPY
N/A	

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

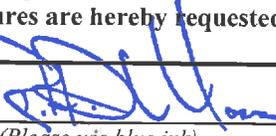
7. Certification For Use Of Minor Modification Procedures (Required Only for Minor Modification Requests)

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.

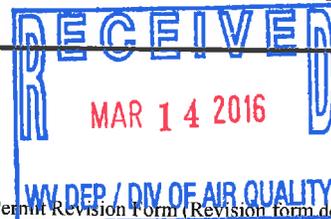
Pursuant to 45CSR§30-6.5.a.2.C., the proposed modification contained herein meets the criteria for use of Minor permit modification procedures as set forth in Section 45CSR§30-6.5.a.1.A. The use of Minor permit modification procedures are hereby requested for processing of this application.

(Signed):  Date: 03 / 11 / 2016
(Please use blue ink) (Please use blue ink)
 Named (typed): Robert D. Moore Title: Vice President

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

- Compliance Assurance Monitoring Form(s)
- 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*

*Earl Ray Tomblin
Governor*

*Randy C. Huffman
Cabinet Secretary*

Permit to Operate



*Pursuant to
Title V
of the Clean Air Act*

Issued to:

Consolidation Coal Company
Marion County Coal
Company
Loveridge Marion County Preparation Plant
R30-04900019-2014

*John A. Benedict
Director*

*Issued: January 24, 2014 • Effective: February 7, 2014
Expiration: January 24, 2019 • Renewal Application Due: July 24, 2018*

Permit Number: R30-04900019-2014

Permittee: ~~Consolidation Coal Company~~ Marion County Coal Company

Facility Name: ~~Loveridge~~ Marion County Preparation Plant

Permittee Mailing Address: P. O. Box 100, Osage, WV 26543

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:	Fairview, Marion County, West Virginia
Telephone Number:	304-534-4748
Type of Business Entity:	Corporation
Facility Description:	Coal preparation plant with a thermal dryer
SIC Codes:	1222
UTM Coordinates:	561.6 km Easting \$ 4,383.9 km Northing \$ Zone 17

Permit Writer: Beena Modi

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

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

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APPENDIX A –Weekly Opacity Testing Records and Certification of Data Accuracy

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/ Modified ¹	Maximum Design Capacity	Control Device ²
Raw Coal Circuit					
001	Z01	Conveyor 1 – Mine slope belt to Raw Coal Transfer Building	Pre 1974	3,000 TPH 26,280,000 TPY	FE
005	Z01	Conveyor 3 – Belt from Raw Coal Transfer Building to Raw Coal Storage Bin I	Pre 1974	3,000 TPH 26,280,000 TPY	FE
006	Z01	Storage Bin 1 – Raw Coal storage silo from Conveyor 3 and transfers to Conveyor 4; Storage capacity is 15,000 tons	Pre 1974	2,000 TPH 17,520,000 TPY	FE
008	Z01	Conveyor 4 – Belt from Raw Coal Storage Bin 1 to Prep Plant	Pre 1974	2,000 TPH 12,000,000 TPY	FE
002	Z01	Conveyor 2 – Belt from Raw Coal Storage Bin 1 to Prep Plant	1989	3,000 TPH 900,000 TPY	FE
003A	Z01	Raw Coal Stockpile 1 – Stockpile equipped with Stacking Tube 1 and Stacking Tube 2; Stockpile footprint is 9.55 acres with a storage capacity of 450,000 tons	2005	3,000 TPH 26,280,000	ST
052	Z01	Conveyor 21 – Belt from Raw Coal Transfer Building to Raw Coal Stockpile 1 Stacking Tube 2	2005	3,000 TPH 12,000,000 TPY	FE
053	Z01	Conveyor 22 – Belt from Raw Coal Stockpile 1 to Conveyor 4	2005	3,000 TPH 12,000,000 TPY	FE
007	Z01	Raw Coal Stockpile 2 – Stockpile footprint is 3.8 acres with a storage capacity of 70,000 tons	1993	1,800 TPH 210,000 TPY	MC
Stoker Coal Circuit					
037	Z01	Conveyor 19 – Belt from Prep Plant to Stoker Coal Truck Loadout	Pre 1974	300 TPH 1,800,000 TPY	FE
051A	Z01	Conveyor 20 – Belt from Prep Plant to Stoker Coal Railcar Loadout	Pre 1974	300 TPH 1,800,000 TPY	FE

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified ¹	Maximum Design Capacity	Control Device ²
046	P003	Lime Storage Silo 1	Pre 1974	NA	None
048	P004	Rock Dust Silo 1	Pre 1974	NA	None
Clean Coal Thermal Dryer Circuit					
034	Z01	Conveyor 15 – Belt from Prep Plant to Thermal Dryer 1	1985	600 TPH 3,600,000 TPY	FE
045A/045C	P002	Thermal Dryer – ENI Eng. Co. Fluidized Bed Dryer rated at limited to 13082 MM BTU/hr Heat Input	1985	Max. 600 TPH Normal 450 TPH 3,600,000 TPY	Horizontal Venturi Scrubber (SCR1)/ Cyclones (CYC1)
035	Z01	Conveyor 16 – Belt from Thermal Dryer to Conveyor 17	1985	600 TPH 3,600,000 TPY	FE
036	Z01	Conveyor 17 – Belt from Conveyor 16 to Conveyor 18	1985	600 TPH 3,600,000 TPY	FE
036B	Z01	Conveyor 18 – Belt from Conveyor 17 to Conveyor 6	1985	600 TPH 3,600,000 TPY	FE
Clean Coal Circuit					
013	Z01	Conveyor 5 – Belt from Prep Plant to Conveyor 6	Pre 1974	1,800 TPH 10,800,000 TPY	FE
015	Z01	Conveyor 6 – Belt from Conveyor 5 and Conveyor 18 to Clean Coal Silo 1 or Conveyor 7	Pre 1974	1,800 TPH 10,800,000 TPY	FE
Clean Coal Storage					
017	Z01	Clean Coal Silo 1 – Clean Coal storage silo from Conveyor 6 and transfers to Conveyor 8; Storage capacity is 10,500 tons	Pre 1974	3,000 TPH 18,000,000 TPY	FE
030	Z01	Conveyor 7 – Belt from Conveyor 6 to Clean Coal Silo 2 or Conveyor 7A	1981	1,800 TPH 10,800,000 TPY	FE
044	Z01	Clean Coal Silo 2 – Clean Coal storage silo from Conveyor 6 and transfers to Conveyor 8; Storage capacity is 10,500 tons	1981	3,000 TPH 18,000,000 TPY	FE

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified ¹	Maximum Design Capacity	Control Device ²
031	Z01	Conveyor 13 – Belt from Clean Coal Silo to Conveyor 8	1981	3,000 TPH 18,000,000 TPY	FE
030A	Z01	Conveyor 7A – Belt from Conveyor 7 to Clean Coal Silo 3	2006	1,800 TPH 10,800,000 TPY	FE
044A	Z01	Clean Coal Silo 3 – Clean Coal storage silo from Conveyor 6 and transfers to Conveyor 8; Storage capacity is 10,500 tons	2006	1,800 TPH in 3,000 TPH out 10,800,000 TPY	FE
031A	Z01	Conveyor 13A – Belt from Clean Coal Silo 3 to Conveyor 8	2006	3,000 TPH 18,000,000 TPY	FE
Clean Coal Shipping by Truck and Railcar					
018	Z01	Conveyor 8 – Belt from Clean Coal Silo 1, Conveyor 13 and Conveyor 13A to Conveyor 8A or Conveyor 9	Pre 1974/ 2006	3,000 TPH 18,000,000 TPY	FE
018A	Z01	Conveyor 8A – Belt from Conveyor 8 to Batch Weigh Loadout	2014	3,500TPH 9,198,000 TPY	PE
032	Z01	Conveyor 9 – Belt from Conveyor 8 to Unit Train Loadout 1	Pre 1974/ 2006 Modified 2014	3,500 TPH 18,000,000 TPY	FE
Refuse Circuit					
020	Z01	Transfer Point 020 – Clean Coal Unit Train Loadout	Pre 1974	3,000 TPH 18,000,000 TPY	PE
021	Z01	Conveyor 10 – Coarse refuse belt from Prep Plant to Conveyor 11	Pre 1974	400 TPH 2,400,000 TPY	FE
023	Z01	Conveyor 11- Coarse refuse belt from Conveyor 10 to Refuse Bin 2	Pre 1974	400 TPH 2,400,000 TPY	FE
027A	Z01	Refuse Bin 2 – Coarse refuse bin from Conveyor 11 to Pan Truck Loading	Pre 1974	400 TPH 2,400,000 TPY	FE
025	Z01	Conveyor 12 – Coarse refuse belt from Conveyor 11 to Conveyor 14	Pre 1974	400 TPH 2,400,000 TPY	FE
033	Z01	Conveyor 14 – Coarse refuse belt from Conveyor 12 to Refuse Bin 1	1983	400 TPH 2,400,000 TPY	FE

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/Modified ¹	Maximum Design Capacity	Control Device ²
027	Z01	Refuse Bin 1 – Coarse refuse belt from Conveyor 14 to Pan Truck Loading	1983	400 TPH 2,400,000 TPY	FE
012	Z01	Refuse Disposal Area (RDA)	Pre 1974	400 TPH 2,400,000 TPY	MC
Haulroads					
049A	Z01	Unpaved Haulroad	Pre 1974	NA	WT
049B	Z01	Unpaved Haulroad	Pre 1974	NA	WT
049C	Z01	Unpaved Haulroad	Pre 1974	NA	WT
049D	Z01	Unpaved Haulroad	Pre 1974	NA	WT
049E	Z01	Unpaved Haulroad	Pre 1974	NA	WT
049F	Z01	Unpaved Haulroad	Pre 1974	NA	WT
049G	Z01	Unpaved Haulroad	1993	NA	WT
049H	Z01	Unpaved Haulroad	1993	NA	WT
VOC Emission Sources					
009B	Z01	Froth Flotation Cell	1985	NA	None
009	P001	Vacuum Filter	1985	NA	None
047	Z01	Thickener	1985	NA	None
038A	Z01	Railcar Anti-Freeze Spray	Pre 1974	NA	None
051C	Z01	Stoker Coal Anti-Freeze Spray	Pre 1974	NA	None
S050A	Z01	No. 2 Diesel Fuel Storage Tank 1	1985	5,000 Gallons	None
S050B	Z01	No. 2 Diesel Fuel Storage Tank 2	1985	3,000 Gallons	None
S050C	Z01	No. 2 Diesel Fuel Storage Tank 3	1985	3,000 Gallons	None
S050D	Z01	No. 2 Diesel Fuel Storage Tank 4	1985	1,000 Gallons	None
S050E	Z01	Froth Flotation Agent Storage Tank 1	1985	5,000 Gallons	None
S050F	Z01	Anionic Flocculant Storage Tank 1	1985	1,000 Gallons	None
S050G	Z01	Antifreeze Storage Tank 1	1985	8,000 Gallons	None
S050H	Z01	Antifreeze Storage Tank 2	1985	8,000 Gallons	None
S050I	Z01	Dustrol Storage Tank 1	1985	1,600 Gallons	None
S050J	Z01	Dustrol Storage Tank 2	1985	1,600 Gallons	None
S050K	Z01	30 wt. Motor Oil Storage Tank 1	1985	580 Gallons	None

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified ¹	Maximum Design Capacity	Control Device ²
S050L	Z01	30 wt. Motor Oil Storage Tank 2	1985	580 Gallons	None
NA	None		Underground Mine	NA	Pre-1974

- 1 In accordance with 40 CFR 60 Subpart Y, all emissions from thermal dryers constructed, re-constructed or modified on or before April 28, 2008 shall be less than 20% opacity; coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems constructed, reconstructed, or modified on or before April 28, 2008 shall not discharge gases which exhibit 20 percent opacity or greater; and coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems constructed, reconstructed, or modified after April 28, 2008 shall not discharge gases which exhibit 10 percent opacity or greater.
- 2 PE – Partial Enclosure, FE – Full Enclosure, ST – Stacking Tube, WT – Water Truck, MC – Moisture Content.

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
R13-0760E	March 6, 2015

2.0 General Conditions

2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

2.2. Acronyms

CAAA	Clean Air Act Amendments	NO _x	Nitrogen Oxides
CBI	Confidential Business Information	NSPS	New Source Performance Standards
CEM	Continuous Emission Monitor		
CES	Certified Emission Statement	PM	Particulate Matter
C.F.R. or CFR	Code of Federal Regulations	PM ₁₀	Particulate Matter less than 10µm in diameter
CO	Carbon Monoxide		
C.S.R. or CSR	Codes of State Rules	pph	Pounds per Hour
DAQ	Division of Air Quality	ppm	Parts per Million
DEP	Department of Environmental Protection	PSD	Prevention of Significant Deterioration
FOIA	Freedom of Information Act	psi	Pounds per Square Inch
HAP	Hazardous Air Pollutant	SIC	Standard Industrial Classification
HON	Hazardous Organic NESHAP		
HP	Horsepower	SIP	State Implementation Plan
lbs/hr or lb/hr	Pounds per Hour	SO ₂	Sulfur Dioxide
LDAR	Leak Detection and Repair	TAP	Toxic Air Pollutant
m	Thousand	TPY	Tons per Year
MACT	Maximum Achievable Control Technology	TRS	Total Reduced Sulfur
		TSP	Total Suspended Particulate
mm	Million	USEPA	United States Environmental Protection Agency
mmBtu/hr	Million British Thermal Units per Hour		
mmft ³ /hr or mmcf/hr	Million Cubic Feet Burned per Hour	UTM	Universal Transverse Mercator
NA or N/A	Not Applicable	VEE	Visual Emissions Evaluation
NAAQS	National Ambient Air Quality Standards	VOC	Volatile Organic Compounds
NESHAPS	National Emissions Standards for Hazardous Air Pollutants		

2.3. Permit Expiration and Renewal

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

2.4. Permit Actions

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

2.5. Reopening for Cause

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
 - 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.b.]

2.10. Off-Permit Changes

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
 - a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
 - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
 - c. The change shall not qualify for the permit shield.

- d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.
- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.
[45CSR§30-5.9.]

2.11. Operational Flexibility

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.
[45CSR§30-5.8]
- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.
[45CSR§30-5.8.a.]
- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:
 - a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
 - b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.
[45CSR§30-5.8.c.]

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
[45CSR§30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

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

[45CSR§30-5.1.i.]

2.13. Duty to Comply

- 2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

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

[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:

- a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

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

[45CSR§30-5.1.f.2.]

2.17. Emergency

- 2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[45CSR§30-5.7.a.]

- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.

[45CSR§30-5.7.b.]

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

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The permitted facility was at the time being properly operated;
- c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

- 2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
[45CSR§30-5.7.d.]

- 2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
[45CSR§30-5.7.e.]

2.18. Federally-Enforceable Requirements

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.
[45CSR§30-5.2.a.]
- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

2.19. Duty to Provide Information

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.
[45CSR§30-5.1.f.5.]

2.20. Duty to Supplement and Correct Information

- 2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.
[45CSR§30-4.2.]

2.21. Permit Shield

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

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

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

[45CSR§30-5.6.e.]

2.22. Credible Evidence

- 2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.
[45CSR§30-5.3.e.3.B. and 45CSR38]

2.23. Severability

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

[45CSR§30-5.1.e.]

2.24. Property Rights

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

2.25. Acid Deposition Control

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

[45CSR§30-5.1.d.]

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.
[45CSR§30-5.1.a.2.]

3.0 Facility-Wide Requirements

3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40 C.F.R. §61.145(b) and 45CSR34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **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]

3.2. 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:
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.; 45CSR13, R13-0760, 4.4.1]

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

[45CSR§30-5.1.c.2.B.]

- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§30-5.1.c. State-Enforceable only.]

3.5. 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.i.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.
- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.
- a. None

4.0 Source-Specific Requirements

4.1. Limitations and Standards

- 4.1.1. The permittee shall not exceed the maximum hourly and annual throughput rates and other criteria outlined in the table in Section 1.0 Emission Units.
[45CSR13, R13-0760, 4.1.1]
- 4.1.2. Compliance with all annual throughput limits shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the amount of material received, processed, and/or shipped at any given time during the previous twelve (12) consecutive calendar months.
[45CSR13, R13-0760, 4.1.2]
- 4.1.3. Any and all records, such as throughput, hours of operation of the thermal dryer, SO₂ data, etc., shall be completed, certified and kept on site for a period of no less than five (5) years. Such records shall be made available to the Director or his or her duly authorized representative upon request.
[45CSR13, R13-0760, 4.1.3]
- 4.1.4. Emissions from the permitted fluidized bed coal dryer stack shall not exceed the following rates:

Pollutant	pounds/hour	tons/year
Particulate Matter (PM) ⁽¹⁾	40.0	120.0
Sulfur Dioxide (SO ₂)	195.0	586.0
Nitrogen Oxides (NO _x)	63.6	190.8
Volatile Organic Compounds (VOC)	135.6	406.8
Carbon Monoxide (CO)	57.6	172.8

⁽¹⁾All PM emissions are assumed to be PM_{2.5} or smaller.

(045A, 045C) [45CSR13, R13-0760, 4.1.4]

- 4.1.5. Operation of the thermal dryer shall be in accordance with the following requirements:
 - a. The furnace shall be limited to a maximum combustion rate of 4.35 tons-coal/hour and 26,100 tons-coal/year (rolling twelve month basis).
 - b. The furnace shall be limited to a maximum combustion rate of ~~3,033,182,000~~ cubic feet-coal bed methane or natural gas/hour and ~~1,821,092~~ x 10⁶ cubic feet-coal bed methane or natural gas/year (rolling twelve month basis).
 - c. The sulfur content of the coal fired in the furnace shall not exceed ~~3.49~~% by weight.
 - d. Coal combustion shall be limited to providing 120 MMBtu/hr heat input into the furnace.
 - e. ~~At all times coal combustion is providing over 90 MMBtu/hr heat input into the furnace a 20% solution of sodium hydroxide (NaOH) shall be sprayed downstream~~

of the venturi scrubber to provide for additional SO₂ control in accordance with the requirements specified in 4.2.4.

- f. Additional heat input to the furnace above 120 MMBtu/hr shall be provided by the combustion of coal bed methane or natural gas.
- g. ~~Total Heat~~ Total Heat input to the furnace shall not exceed ~~482-130~~ MMBtu/hr.
- h. The scrubber shall be operated at all times coal is combusted in the furnace.

(045A, 045C) [45CSR13, R13-0760, 4.1.5]

4.1.6. The permittee shall not cause to be discharged into the atmosphere from any thermal dryer gases which:

- a. Contain particulate matter in excess of 0.070 g/dscm (0.031 gr/dscf).
- b. Exhibit 20 percent opacity or greater.

Compliance with the 20 percent opacity limit of 40 C.F.R. §60.252(a) shall demonstrate compliance with the less stringent opacity limits of 45CSR§§5-3.1, 3.2, and 3.3. *(045A, 045C)* [45CSR13, R13-0760, 4.1.6 and 4.1.17; 45CSR16; 40 C.F.R. §60.252(a); 45CSR§§5-3.1, 3.2, 3.3 and 4.1.a]

4.1.7. No person shall circumvent 45CSR5 by adding additional gas to any dryer exhaust or group of dryer exhausts for the purpose of reducing the grain loading. *(045A, 045C)* [45CSR§5-4.2]

4.1.8. No person shall cause, suffer, allow or permit the exhaust gases from a thermal dryer to be vented into the open air at an altitude of less than eighty (80) feet above the foundation grade of the structure containing the dryer or less than ten (10) feet above the top of said structure or any adjacent structure, whichever is greater. In determining the desirable height of the plant stack, due consideration shall be given to the local topography, meteorology, the location of nearby dwellings and public roads, the stack emission rate and good engineering practice as set forth in 45CSR20. *(045A, 045C)* [45CSR§5-4.3]

4.1.9. No person shall cause, suffer, allow, or permit the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 ppm, by volume from existing source operations. *(045A, 045C)* [45CSR§10-4.1]

4.1.10. The permittee shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater. The opacity standards shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. *(002, 052, 053, 034, 035, 036, 036B, 030, 044, 031, 030A, 044A, 031A, 018, 033, 027)* [45CSR13, R13-0760, 4.1.8 and 4.1.18; 45CSR16; 40 C.F.R. §60.254(a); 45CSR§5-3.4]

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

is used.

The spraybar shall be equipped with commercially available spray nozzles, of sufficient size and number, so as to provide adequate coverage to the area being treated. The pump delivering the water, or solution, shall be of sufficient size and capacity so as to be capable of delivering to the spray nozzle(s) an adequate quantity of water, or solution, and at a sufficient pressure, so as to assure that the treatment process will minimize the atmospheric entrainment of fugitive particulate emissions generated from the haulroads and work areas where mobile equipment is used.

The permittee shall properly install, operate and maintain designed winterization systems for all water trucks and/or water sprays in a manner that all such fugitive dust control systems remain functional during winter months and cold weather.

[45CSR13, R13-0760, 4.1.7]

- 4.1.12. **Opacity Limit.** No person shall cause, suffer, allow or permit emission of particulate matter into the open air from any fugitive dust control system which is twenty percent (20%) opacity or greater. (001, 005, 006, 008, 037, 051A, 046, 048, 013, 015, 017, 020, 021, 023, 027A, 025) [45CSR13, R13-0760, 4.1.8; 45CSR§5-3.4]
- 4.1.13. At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [45CSR16; 40 C.F.R. §60.11d; 45CSR13, R13-0760, 4.1.16]
- 4.1.14. In order to prevent and control air pollution from coal refuse disposal areas, the operation of coal refuse disposal areas shall be conducted in accordance with the standards established by the following:
- a. Coal refuse is not to be deposited on any coal refuse disposal area unless the coal refuse is deposited in such a manner as to minimize the possibility of ignition of the coal refuse.
 - b. Coal refuse disposal areas shall not be so located with respect to mine openings, tipples or other mine buildings, unprotected coal outcrops or steam lines, that these external factors will contribute to the ignition of the coal refuse on such coal refuse disposal areas.
 - c. Vegetation and combustible materials shall not be left on the ground at the site where a coal refuse pile is to be established, unless it is rendered inert before coal refuse is deposited on such site.
 - d. Coal refuse shall not be dumped or deposited on a coal refuse pile known to be burning, except for the purpose of controlling the fire or where the additional coal refuse will not tend to ignite or where such dumping will not result in statutory air pollution.
 - e. Materials with low ignition points used in the production or preparation of coal, including, but not limited to, wood, brattice cloth, waste paper, rags, oil and grease, shall not be deposited on any

coal refuse disposal area or in such proximity as will reasonably contribute to the ignition of a coal refuse disposal area.

- f. Garbage, trash, household refuse and like materials shall not be deposited on or near any coal refuse disposal area.
- g. The deliberate ignition of a coal refuse disposal area or the ignition of any materials on such an area by any person or persons is prohibited.

(012) [45CSR§§5-7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8]

4.1.15 Each burning coal refuse disposal area which allegedly causes air pollution shall be investigated by the Director in accordance with the following:

- a. Each coal refuse disposal area which causes air pollution shall be considered on an individual basis by the Director. Consistent with the declaration of policy and purpose set forth in W. Va. Code §22-5-1, as well as the established facts and circumstances of the particular case, the Director shall determine and may order after a proper hearing the effectuation of those air pollution control measures which are adequate for each such coal refuse disposal area.
- b. With respect to all burning coal refuse disposal areas, the person responsible for such coal refuse disposal areas or the land on which such coal refuse disposal areas are located shall use due diligence to control air pollution from such coal refuse disposal areas. Consistent with the declaration of policy and purpose set forth in W. Va. Code §22-5-1, as amended, the Director shall determine what constitutes due diligence with respect to each such burning coal refuse disposal area. When a study of any burning coal refuse disposal area by the Director establishes that air pollution exists or may be created, the person responsible for such coal refuse disposal area or the land on which such coal refuse disposal area is located shall submit to the Director a report setting forth satisfactory methods and procedures to eliminate, prevent, or reduce such air pollution. The report shall be submitted within such time as the Director shall specify. The report for the elimination, prevent or reduction of air pollution shall contain sufficient information, including completion dates, to establish that such program can be executed with due diligence. If approved by the Director, the corrective measures and completion dates shall be embodied in a consent order issued pursuant to W. Va. Code §§22-5-1 et seq. If such report is not submitted as requested or if the Director determines that the methods and procedures set forth in such report are not adequate to reasonably control such air pollution, then a hearing will be held pursuant to the procedures established by W. Va. Code §22-5.

(012) [45CSR§§5-8.1, 8.2, 8.3]

4.1.16 **Fugitive Dust Control System.** No person shall cause, suffer, allow or permit a coal preparation plant or handling operation to operate that is not equipped with a fugitive dust control system. This system shall be operated and maintained in such a manner as to minimize the emission of particulate matter into the open air. All fugitive dust control systems shall remain functional year-round, to the maximum extent practicable, including winter months and cold weather. [45CSR§5-6.1; 45CSR§30-12.7, 45CSR13, R13-0760, 4.1.9]

- 4.1.17. **Dust Control.** The owner or operator of a coal preparation plant or handling operation shall maintain dust control of the premises and owned, leased or controlled access roads by paving, or other suitable measures. Good operating practices shall be observed in relation to stockpiling, car loading, breaking, screening and general maintenance to minimize dust generation and atmospheric entrainment. [45CSR§5-6.2, 45CSR13, R13-0760, 4.2.10]
- 4.1.18. No person shall construct, modify or relocate any coal preparation plant or coal handling operation without first obtaining a permit in accordance with the provisions of W. Va. Code §22-5-1 et seq. and the Director's rules for review and permitting of new or modified sources. [45CSR§5-10.1, 45CSR13, R13-0760, 4.2.11]
- 4.1.19. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary. [45CSR§13-5.1.1, 45CSR13, R13-0760, 4.1.12]
- 4.1.20. 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. [45CSR§13-6.1, 45CSR13, R13-0760, 4.1.13]
- 4.1.21. The Secretary may suspend or revoke a permit or general permit registration 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 or general permit registration. [45CSR§13-10.2, 45CSR13, R13-0760, 4.1.14]
- 4.1.22. The Secretary may suspend or revoke a permit or general permit registration 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 or general permit registration should not be suspended, modified or revoked. [45CSR§13-10.3, 45CSR13, R13-0760, 4.1.15]
- 4.1.23. **Standards for Particulate Matter.** On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008, must meet the requirements in paragraphs (b)(1) through (3) of this section. [*Conveyor C88A(018A), Conveyor C9(032) and Batch Weigh Loadout Bin*] [40CFR§60.254(b)]
- (1) Except as provided in paragraph (b)(3) of this section, the owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or

greater.
 [40CFR§60.254(b)(1)]

(2) The owner or operator must not cause to be discharged into the atmosphere from any mechanical vent on an affected facility gases which contain particulate matter in excess of 0.023 g/dscm (0.010 gr/dscf).
 [40CFR§60.254(b)(2)]

(3) Equipment used in the loading, unloading, and conveying operations of open storage piles are not subject to the opacity limitations of paragraph (b)(1) of this section.
 [40CFR§60.254(b)(3)]

Compliance with the 10 percent opacity limit of 40CFR§60.254(b)(1) shall demonstrate compliance with the less stringent opacity limit of 45CSR§5-3.4.

[45CSR13, R13-0760, 4.1.19 and 4.1.8; 45CSR16; 45CSR§5-3.4]

4.2. Monitoring Requirements

4.2.1. For the purposes of demonstrating compliance with maximum coal and coal bed methane or natural gas usage limits set forth in 4.1.5.a and 4.1.5.b, respectively, the permittee shall maintain monthly and rolling twelve month records of the amount of coal and coal bed methane or natural gas usage that is consumed by the furnace. [45CSR13, R13-0760, 4.2.1]

4.2.2. For the purposes of demonstrating continuing compliance with the coal sulfur content under 4.1.5.c, the permittee shall daily obtain a composite sample of coal to be combusted in the thermal dryer furnace. This sample shall be tested according to the appropriate test methods as approved in a protocol submitted pursuant to 3.3.1.c to determine the sulfur content of the coal. [45CSR13, R13-0760, 4.2.2; 45CSR§10-8.2.c]

4.2.3. The permittee shall install, evaluate, operate, and maintain instrumentation to measure the heat input into the furnace. [45CSR13, R13-0760, 4.2.3]

4.2.4. The permittee shall perform a daily calculation to determine the maximum coal feed rate to the thermal dryer that would result in compliance with the hourly SO₂ emissions limit in 4.1.4 based on available fuel sulfur data. The daily calculation shall be performed as follows:

$$195 \frac{\text{lbs}}{\text{hr}} = X \text{ tph} \times 2,000 \left(\frac{\text{lbs}}{\text{ton}} \right) \times \frac{S}{100} \times \frac{2 \text{ mol SO}_2}{1 \text{ mol S}} \times (1 - 55\%)$$

Where:

- 195 = the hourly SO₂ emissions limit in 4.1.4 (lbs/hr);
- X = the maximum coal feed rate that would result in compliance with the above limit (tph);
- S = the most recent daily fuel sulfur content (wt %); and
- 55% = the approximate wet scrubber SO₂ removal efficiency without caustic.

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The permittee shall spray a 20% solution of sodium hydroxide (NaOH) downstream of the venturi scrubber to provide for additional SO₂ control during any time which the coal feed rate to the thermal dryer exceeds the value calculated in accordance with the above equation.

- 4.2.54. Instruments will be installed for continuously measuring the pH of the scrubber inlet water and effluent water and pH monitors will be installed in the operating room so that the dryer operator can maintain the necessary influent pH to attain the required minimum SO₂ removal efficiency. The pH monitoring devices shall be certified by the manufacturer to be accurate within 0.1 pH units. The pH of the scrubber inlet water and effluent water shall be maintained above 3.4. An excursion shall be defined as when the pH values of the scrubber inlet water and/or effluent water are below 3.4. When an excursion occurs, the permittee shall conduct an inspection of the scrubber and corrective action shall be taken to return the pH values to the operating range established during the performance testing. The instruments used to monitor the pH shall be recalibrated quarterly in accordance with the manufacturer's recommendations. [45CSR13, R13-0760, 4.2.4; 45CSR§30-5.1.c; 40 C.F.R. §§64.6(c), 64.7(c), and 64.7(d)]
- 4.2.65. The permittee shall install flow straightening devices in the stack of the ~~Loveridge~~ Marion County fluidized bed thermal dryer during compliance tests to insure that cyclonic flow does not occur. [45CSR13, R13-0760, 4.2.5; 45CSR§5-12.6]
- 4.2.76. For the purpose of determining compliance with the opacity limits of 45CSR5 and 40 C.F.R. 60, Subpart Y, the permittee shall conduct visible emission checks and/or opacity monitoring for all emissions units subject to an opacity standard [Except for the following: Conveyor CB8A (018A), Conveyor C9 (032) and Batch Weigh Loadout Bin BWL (038B), which are subject to the certification of compliance requirements in 40 CFR§60.255(b) found in Section 4.3.6. of this permit]:
- a. An initial visible emissions evaluation in accordance with 40 CFR 60 Appendix A-4, Method 9 shall be performed within ninety (90) days of permit issuance for each emission unit with a visible emissions requirement in this permit unless such evaluation was performed within the consecutive 12-month period preceding permit issuance. This initial evaluation shall consist of three 6-minute averages during one consecutive 60 minute period. The initial evaluation shall be conducted at each emissions unit during the period of maximum expected visible emissions under normal unit and facility operations.
 - b. Each emissions unit with a visible emissions limit contained in this permit shall be observed visually at least once each calendar week during periods of normal facility operation for a sufficient time interval to determine the presence of absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40 C.F.R. 60, Appendix A-7, Method 22 or from the lecture portion of the 40 C.F.R. 60, Appendix A-4, Method 9 certification course.

If visible emissions from any of the emissions units are observed during these weekly observations, or at any other time, that appear to exceed 50 percent of the allowable visible emission requirement for the emission unit, visible emissions evaluations in accordance with 40 CFR 60 Appendix A-4, Method

9 shall be conducted as soon as practicable, but no later than seventy-two (72) hours from the time of the observation. A Method 9 evaluation shall not be required if the visible emissions condition is corrected as expeditiously as possible, but no later than twenty-four (24) hours from the time of the observation; the emissions unit is operating at normal operating conditions; and, the dates and times, causes and corrective measures taken are recorded.

- c. If the initial, or any subsequent, visible emissions evaluation indicates visible emissions in excess of 50 percent of the allowable visible emissions requirement for a given emission unit, a visible emissions evaluation in accordance with 40 CFR 60 Appendix A-4, Method 9 shall be performed for that unit at least once every consecutive 14-day period. If subsequent visible emissions evaluations indicate visible emissions less than or equal to 50 percent of the allowable visible emissions requirement for the emission unit for 3 consecutive evaluation periods, the emission unit may comply with the visible emissions testing requirements in Section 4.2.6.b. of this permit in lieu of those established in this condition.
- d. A visual emissions evaluation shall be conducted on all process and control equipment at least once each calendar month. If any deficiencies are observed, the necessary maintenance must be performed as expeditiously as possible.
- e. A visible emissions evaluation shall be conducted for each emission unit at least once every consecutive 12-month period in accordance with 40 CFR 60 Appendix A-4, Method 9. This annual evaluation shall consist of a minimum of 24 consecutive observations for each emission unit.
- f. A record of each visible emissions observation shall be maintained, including any data required by 40 CFR 60 Appendix A, Method 22 or Method 9, whichever is appropriate. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer.

[45CSR13, R13-0760, 4.2.6; 45CSR§5-12.4]

4.2.78. The permittee shall install, calibrate, maintain, and continuously operate monitoring devices as follows:

- a. A monitoring device for the measurement of the temperature of the gas stream at the exit of the thermal dryer on a continuous basis. The monitoring device is to be certified by the manufacturer to be accurate within ± 1.7 °C (± 3 °F). During normal operations, the temperature of the gas stream at the exit of the thermal dryer is maintained between 120 and 220 °F. A temperature outside of this range shall be defined as an excursion. When an excursion occurs, the permittee shall conduct an inspection of the thermal dryer and corrective action shall be taken to return the temperature to an operating range of less than 220 °F and greater than 120 °F.
- b. For affected facilities that use venturi scrubber emission control equipment:
 - (1) A monitoring device for the continuous measurement of the pressure loss through the venturi constriction of the control equipment. The monitoring device is to be certified by the manufacturer to be accurate within ± 1 inch water gauge. During normal operations, the pressure loss through the venturi constriction of the scrubber is maintained between

26 and 40 inches of H₂O. A pressure loss outside of this range shall be defined as an excursion. When an excursion occurs, the permittee shall conduct an inspection of the venturi scrubber and corrective action shall be taken to return the pressure loss to an operating range of greater than 26 inches of H₂O and less than 40 inches of H₂O.

- (2) A monitoring device for the continuous measurement of the water supply pressure to the control equipment. The monitoring device is to be certified by the manufacturer to be accurate within ± 5 percent of the design water supply pressure. The pressure sensor or tap must be located close to the water discharge point. The Administrator may be consulted for approval of alternative locations. During normal operations, the water pressure to the scrubber is maintained between 15 and 25 psi. A water pressure outside of this range shall be defined as an excursion. When an excursion occurs, the permittee shall conduct an inspection of the venturi scrubber and corrective action shall be taken to return the water pressure to an operating range of greater than 15 psi and less than 25 psi.

[45CSR13, R13-0760, 4.2.7(1); 45CSR16; 40 C.F.R. §60.256(a)(1); 45CSR§30-5.1.c; 40 C.F.R. §§64.6(c), 64.7(c), and 64.7(d)]

4.2.98. All monitoring devices under 4.2.7 are to be recalibrated annually in accordance with procedures in 40 C.F.R. §60.13(b). [45CSR13, R13-0760, 4.2.7(2); 45CSR16; 40 C.F.R. §60.256(a)(2)]

4.2.109. **Proper maintenance (CAM).** 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. [45CSR§30-5.1.c. and 40C.F.R. §64.7(b)] (SCR1)

4.2.110. **Continued operation (CAM).** 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. [45CSR§30-5.1.c. and 40C.F.R. §64.7(c)] (SCR1)

4.2.121. **Response to excursions or exceedances (CAM).**

- (1) 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.

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

[45CSR§30-5.1.c. and 40 C.F.R. §64.7(d)] (SCR1)

- 4.2.1~~32~~³³ **Documentation of need for improved monitoring (CAM).** 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.

[45CSR§30-5.1.c. and 40 C.F.R. §64.7(e)] (SCR1)

- 4.2.1~~43~~⁴⁴ **Documentation of need for improved monitoring (CAM).** (a) 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.

(b) Elements of a QIP:

- (1) The owner or operator shall maintain a written QIP, if required, and have it available for inspection.
- (2) The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:
 - (i) Improved preventive maintenance practices.
 - (ii) Process operation changes.
 - (iii) Appropriate improvements to control methods.
 - (iv) Other steps appropriate to correct control performance.

(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (b)(2)(i) through (iv) of this section).

(c) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the permitting authority if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(d) Following implementation of a QIP, upon any subsequent determination pursuant to § 64.7(d)(2) the Administrator or the permitting authority may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:

(1) Failed to address the cause of the control device performance problems; or

(2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(e) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

[45CSR§30-5.1.c. and 40 C.F.R. §64.8] (SCR1)

4.3. Testing Requirements

~~4.3.1. Notwithstanding any other testing requirements, the permittee shall conduct or have conducted performance test(s) on Thermal Dryer to determine compliance with the SO₂ emission limit under 4.1.4. The test shall be performed according to the following conditions:~~

~~a. The sulfur content of the coal fired in the furnace be, at a minimum, 3.4% by weight.~~

~~b. SO₂ emissions shall be determined when the furnace is operating at the following scenarios:~~

~~(1) Combusting only coal at a heat input of 90 MMBtu/hr with no introduction of NaOH downstream of the scrubber.~~

~~(2) Combusting only coal at a heat input of 120 MMBtu/hr with an introduction of a 20% solution of NaOH downstream of the scrubber.~~

~~(3) At a furnace heat input of 182 MMBtu/hr with coal providing 120 MMBtu/hr and coal bed methane providing 62 MMBtu/hr and with an introduction of a 20% solution of NaOH downstream of the scrubber.~~

~~c. Testing shall occur according to the schedule given in the following table:~~

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~~(1) Within 180 days after the issuance date of the permit, the permittee shall conduct or have conducted performance test(s) while operating at the conditions described under 4.3.1.b.(1).~~

~~(2) Within 180 days of operating the furnace at a heat input greater than 95 mmBtu/hr, the permittee shall conduct or have conducted performance test(s) while operating at the conditions described under 4.3.1.b.(2).~~

~~(3) Within 180 days of operating the furnace at a heat input greater than 125 mmBtu/hr, the permittee shall conduct or have conducted performance test(s) while operating at the conditions described under 4.3.1.b.(3).~~

~~[45CSR13, R13-0760, 4.3.1]~~

~~4.3.2. The test required under 4.3.1 shall be in accordance with 3.3.1. [45CSR13, R13-0760, 4.3.2]~~

4.3.3. For the purpose of demonstrating compliance with the particulate matter emission limits of 4.1.4 and 4.1.6 for the Thermal Dryer (045A/045C), the permittee shall conduct stack testing within 180 days after issuance of the permit. All tests to determine compliance with exhaust gas dust concentrations and particulate matter mass emission rates shall be conducted in accordance with Methods 1-5 of 40 C.F.R. 60, Appendix A, provided that all compliance tests must consist of not less than three (3) test runs, and the sampling time and sample volume for each run shall be at least 60 minutes and 0.85 dscm (30 dscf). Sampling shall begin no less than 30 minutes after startup and shall terminate before shutdown procedures begin.

Parameter indicator ranges shall be established for the exit temperature of the thermal dryer, water supply pressure to the control equipment, and the pressure loss through the venturi constriction of the scrubber. The permittee shall establish these indicator ranges and operate within these ranges to provide a reasonable assurance that the thermal dryer unit is in compliance with opacity and particulate loading limits. The permittee shall take immediate corrective action when a parameter falls outside the indicator range established for that parameter and shall record the cause and corrective measures taken. The permittee shall also record the following parameters during each testing:

- a. Opacity readings on the exhaust stack following the procedures of Method 9;
- b. Amount of coal burned and the amount of coal dried;
- c. Coal drying temperature and residence time in the dryer;
- d. Temperature of the gas stream at the exit of the thermal dryer;
- e. Flow rate through the dryer and converted to dry standard cubic feet;
- f. Water pressure to the control equipment; and
- g. Pressure loss of the inlet air flow to the scrubber. The pressure drop will be measured between the inlet airflow to the scrubber and outlet airflow of the scrubber, which is atmospheric loss through the venturi constriction of the control equipment.

Subsequent testing to determine compliance with the particulate loading limitations of 4.1.4 and 4.1.6 shall be conducted in accordance with the schedule set forth in the following table:

Test	Test Results	Testing Frequency
Annual	If annual testing is required, after two successive tests indicate mass emission rates between 50 % and 90% of particulate loading limit	Once/3 years

Annual	If annual testing is required, after three successive tests indicate mass emission rates \leq 50 % of particulate loading limit	Once/5 years
Once/3 years	If testing is required once/3 years, after two successive tests indicate mass emission rates \leq 50 % of particulate loading limit	Once/5 years
Once/3 years	If testing is required once/3 years and any test indicates a mass emission rate \geq 90 % of particulate loading limit	Annual
Once/5 years	If testing is required once/5 years and any test indicates mass emission rates between 50 % and 90 % of particulate loading limit	Once/3 years
Once/5 years	If testing is required once/5 years and any test indicates a mass emission rate \geq 90 % of particulate loading limit	Annual

These records shall be maintained on site.

~~Note: In the last stack testing performed on September 14, 2011, the average particulate matter emission rates were 18 lb/hr and 0.014 g/dscf, which are less than 50 % of the 4.1.4 hourly particulate matter emission limit of 40 lb/hr and the 4.1.6-40 C.F.R. 60, Subpart Y limit of 0.021 g/dscf. Therefore, subsequent stack testing for Thermal Dryer (045A/045C) must be conducted on or before September 14, 2016.~~

The current parameter indicator ranges are as follows:

- a. Temperature of the gas stream at the exit of the Thermal Dryer: 120 - 220 °F.
- b. Pressure loss through the venturi constriction of the Scrubber: 26 - 40 inches of H₂O.
- c. Water supply pressure to the Scrubber: 15 - 25 psi.

[45CSR§5-12.1; 45CSR16; 40 C.F.R. §60.257(b); 45CSR§30-5.1.c]

~~4.3.42 Within 180 days of issuance of this permit to demonstrate compliance with the emission limits of 4.1.4 for the Thermal Dryer (045A/045C), the permittee shall conduct performance test(s) for SO₂, NO_x, VOC, and CO to demonstrate compliance with the emission limits of 4.1.4 for the Thermal Dryer (045A/045C). Subsequent performance tests shall be conducted at least once every 5 years. Testing shall be conducted in accordance with 3.3.1. [45CSR§30-5.1.c; 45CSR§5-12.2; 45CSR§§10-8.1.a and 8.1.b]~~

~~4.3.35 Performance Tests and Other Compliance Requirements for Subpart Y - Performance Tests. An owner or operator of each affected facility that commenced construction, reconstruction, or modification on or before April 28, 2008, must conduct performance tests required by § 60.8 to demonstrate compliance with the applicable emission standards using the methods identified in § 60.257. [40 CFR§ 60.255(a), 45CSR16, 45CSR13, R13-0760, 4.3.5]~~

~~4.3.64 Performance Tests and Other Compliance Requirements for Subpart Y - Performance Tests. An owner or operator of each affected facility that commenced construction, reconstruction, or modification after April 28, 2008 [CB8A (018A), Conveyor C9 (032) and Batch Weigh Loadout Bin], must conduct performance tests according to the requirements of §60.8 and the methods identified in §60.257 to demonstrate compliance with the applicable emission standards in Subpart Y as specified in paragraphs~~

(b)(1) and (b)(2) of this section.
[40CFR§60.255(b)]

- (1) For each affected facility subject to a PM, SO₂, or combined NO_x and CO emissions standard, an initial performance test must be performed. Thereafter, a new performance test must be conducted according to the requirements in paragraphs (b)(1)(i) through (iii) of this section, as applicable.
[40CFR§60.255(b)(1)]
- (i) If the results of the most recent performance test demonstrate that emissions from the affected facility are greater than 50 percent of the applicable emissions standard, a new performance test must be conducted within 12 calendar months of the date that the previous performance test was required to be completed.
[40CFR§60.255(b)(1)(i)]
- (ii) If the results of the most recent performance test demonstrate that emissions from the affected facility are 50 percent or less of the applicable emissions standard, a new performance test must be conducted within 24 calendar months of the date that the previous performance test was required to be completed.
[40CFR§60.255(b)(1)(ii)]
- (iii) An owner or operator of an affected facility that has not operated for the 60 calendar days prior to the due date of a performance test is not required to perform the subsequent performance test until 30 calendar days after the next operating day.
[40CFR§60.255(b)(1)(iii)]
- (2) For each affected facility subject to an opacity standard, an initial performance test must be performed. Thereafter, a new performance test must be conducted according to the requirements in paragraphs (b)(2)(i) through (ii) of this section, as applicable, except as provided for in paragraphs (e) and (f) of this section. Performance test and other compliance requirements for coal truck dump operations are specified in paragraph (h) of this section.
[40CFR§60.255(b)(2)]
- (i) If any 6-minute average opacity reading in the most recent performance test exceeds half the applicable opacity limit, a new performance test must be conducted within 90 operating days of the date that the previous performance test was required to be completed.
[40CFR§60.255(b)(2)(i)]
- (ii) If all 6-minute average opacity readings in the most recent performance are equal to or less than half the applicable opacity limit, a new performance test must be conducted within 12 calendar months of the date that the previous performance test was required to be completed.
[40CFR§60.255(b)(2)(ii)]
[45CSR13, R13-0760, 4.3.6, 45CSR16]

- 4.3.57. **Performance Tests and Other Compliance Requirements for Subpart Y.** If any affected coal processing and conveying equipment (e.g., breakers, crushers, screens, conveying systems), coal storage systems, or other coal transfer and loading systems that commenced construction, reconstruction, or modification after April 28, 2008, are enclosed in a building and emissions from the building do not exceed any of the standards in §60.254 that apply to the affected facility, then the facility shall be deemed to be in compliance with such standards.
[40CFR§60.255(c), 45CSR16, 45CSR13, R13-0760, 4.3.7]

4.3.86. An owner or operator of an affected facility (other than a thermal dryer) that commenced construction, reconstruction, or modification after April 28, 2008, is subject to a PM emission standard and uses a control device with a design controlled potential PM emissions rate of 1.0 Mg (1.1 tons) per year or less is exempted from the requirements of paragraphs (b)(1)(i) and (ii) of this section provided that the owner or operator meets all of the conditions specified in paragraphs (d)(1) through (3) of this section. This exemption does not apply to thermal dryers.

[40CFR§60.255(d)]

- (1) PM emissions, as determined by the most recent performance test, are less than or equal to the applicable limit,
[40CFR§60.255(d)(1)]
- (2) The control device manufacturer's recommended maintenance procedures are followed, and
[40CFR§60.255(d)(2)]
- (3) All 6-minute average opacity readings from the most recent performance test are equal to or less than half the applicable opacity limit or the monitoring requirements in paragraphs (e) or (f) of this section are followed.
[40CFR§60.255(d)(3)]

[45CSR13, R13-0760, 4.3.8, 45CSR16]

4.3.79. For an owner or operator of a group of up to five of the same type of affected facilities that commenced construction, reconstruction, or modification after April 28, 2008, that are subject to PM emissions standards and use identical control devices, the Administrator or delegated authority may allow the owner or operator to use a single PM performance test for one of the affected control devices to demonstrate that the group of affected facilities is in compliance with the applicable emissions standards provided that the owner or operator meets all of the conditions specified in paragraphs (e)(1) through (3) of this section.

[40CFR§60.255(e)(1)]

- (1) PM emissions from the most recent performance test for each individual affected facility are 90 percent or less of the applicable PM standard;
[40CFR§60.255(e)(1)]
- (2) The manufacturer's recommended maintenance procedures are followed for each control device; and
[40CFR§60.255(e)(2)]
- (3) A performance test is conducted on each affected facility at least once every 5 calendar years.
[40CFR§60.255(e)(3)]

[45CSR13, R13-0760, 4.3.9, 45CSR16]

4.3.849. **Performance Tests and Other Compliance Requirements for Subpart Y - Monitoring Visible Emissions or Digital Opacity Compliance System.** As an alternative to meeting the requirements in paragraph (b)(2) of this section [see permit condition 4.3.6. above], an owner or operator of an affected facility that commenced construction, reconstruction, or modification after April 28, 2008, may elect to comply with the requirements in paragraph (f)(1) or (f)(2) of this section.

[40CFR§60.255(f)]

- (1) Monitor visible emissions from each affected facility according to the requirements in paragraphs (f)(1)(i) through (iii) of this section.

[40CFR§60.255(f)(1)]

- (i) Conduct one daily 15-second observation each operating day for each affected facility (during normal operation) when the coal preparation and processing plant is in operation. Each observation must be recorded as either visible emissions observed or no visible emissions observed. Each observer determining the presence of visible emissions must meet the training requirements specified in §2.3 of Method 22 of appendix A-7 of this part. If visible emissions are observed during any 15-second observation, the owner or operator must adjust the operation of the affected facility and demonstrate within 24 hours that no visible emissions are observed from the affected facility. If visible emissions are observed, a Method 9, of appendix A-4 of this part, performance test must be conducted within 45 operating days.
[40CFR§60.255(f)(1)(i)]
- (ii) Conduct monthly visual observations of all processes and control equipment. If any deficiencies are observed, the necessary maintenance must be performed as expeditiously as possible.
[40CFR§60.255(f)(1)(ii)]
- (iii) Conduct a performance test using Method 9 of Appendix A-4 of this part at least once every 5 calendar years for each affected facility.
[40CFR§60.255(f)(1)(iii)]

- (2) Prepare a written site-specific monitoring plan for a digital opacity compliance system for approval by the Administration or delegated authority. The plan shall require observations of at least one digital image every 15 seconds for 10-minute periods (during normal operation) every operating day. An approvable monitoring plan must include a demonstration that the occurrences of visible emissions are not in excess of 5 percent of the observation period. For reference purposes in preparing the monitoring plan, see OAQPS "Determination of Visible Emission Opacity from Stationary Sources Using Computer-Based Photographic Analysis Systems." This document is available from the U.S. Environmental Protection Agency (U.S. EPA); Office of Air Quality and Planning Standards; Sector Policies and Programs Division; Measurement Group (D243-02), Research Triangle Park, NC 27711. This document is also available on the Technology Transfer Network (TTN) under Emission Measurement Center Preliminary Methods. The monitoring plan approved by the Administrator delegated authority shall be implemented by the owner or operator.
[40CFR§60.255(f)(2)]

[45CSR13, R13-0760, 4.3.10, 45CSR16]

- 4.3.9~~11~~ **Performance Tests and Other Compliance Requirements for Subpart Y - COMS.** As an alternative to meeting the requirements in paragraph (b)(2) of this section [see permit condition 4.3.6. above], an owner or operator of an affected facility that commenced construction, reconstruction, or modification after April 28, 2008, subject to a visible emissions standard under this subpart may install, operate, and maintain a continuous opacity monitoring system (COMS). Each COMS used to comply with provisions of this subpart must be installed, calibrated, maintained, and continuously operated according to the requirements in paragraphs (g)(1) and (2) of this section.
[40CFR§60.255(g), 45CSR13, 45CSR16, R13-0760, 4.3.11]

- 4.3.10~~2~~ **Coal Truck Dump Operations.** The owner or operator of each affected coal truck dump operation that commenced construction, reconstruction, or modification after April 28, 2008, must meet the requirements specified in paragraphs (h)(1) through (3) of this section.
[40CFR§60.255(h)]

- (1) Conduct an initial performance test using Method 9 of appendix A-4 of this part according to the requirements in paragraphs (h)(1)(i) and(ii).

[40CFR§60.255(h)(1)]

(i) Opacity readings shall be taken during the duration of three separate truck dump events. Each truck dump event commences when the truck bed begins to elevate and concludes when the truck bed returns to a horizontal position.

[40CFR§60.255(h)(1)(i)]

(ii) Compliance with the applicable opacity limit is determined by averaging all 15-second opacity readings made during the duration of three separate truck dump events.

[40CFR§60.255(h)(1)(ii)]

(2) Conduct monthly visual observations of all process and control equipment. If any deficiencies are observed, the necessary maintenance must be performed as expeditiously as possible.

[40CFR§60.255(h)(2)]

(3) Conduct a performance test using Method 9 of appendix A-4 of this part at least once every 5 calendar years for each affected facility.

[40CFR§60.255(h)(3)]

[45CSR13, R13-0760, 4.3.12, 45CSR16]

4.3.12] **Test Methods and Procedures for Subpart Y.** The owner or operator must determine compliance with the applicable opacity standards as specified in paragraphs (a)(1) through (3) of this section.

[40CFR§60.257(a)]

(1) Method 9 of appendix A-4 of this part and the procedures in § 60.11 must be used to determine opacity, with the exceptions specified in paragraphs (a)(1)(i) and (ii).

[40CFR§60.257(a)(1)]

(i) The duration of the Method 9 of appendix A-4 of this part performance test shall be 1 hour (ten 6-minute averages).

[40CFR§60.257(a)(1)(i)]

(ii) If, during the initial 30 minutes of the observation of a Method 9 of appendix A-4 of this part performance test, all of the 6-minute average opacity readings are less than or equal to half the applicable opacity limit, then the observation period may be reduced from 1 hour to 30 minutes.

[40CFR§60.257(a)(1)(ii)]

(2) To determine opacity for fugitive coal dust emissions sources, the additional requirements specified in paragraphs (a)(2)(i) through (iii) must be used.

[40CFR§60.257(a)(2)]

(i) The minimum distance between the observer and the emission source shall be 5.0 meters (16 feet), and the sun shall be oriented in the 140-degree sector of the back.

[40CFR§60.257(a)(2)(i)]

(ii) The observer shall select a position that minimizes interference from other fugitive coal dust emissions sources and make observations such that the line of vision is approximately perpendicular to the plume and wind direction.

[40CFR§60.257(a)(2)(ii)]

(iii) The observer shall make opacity observations at the point of greatest opacity in that portion of the plume where condensed water vapor is not present. Water vapor is not considered a visible emission.

[40CFR§60.257(a)(2)(iii)]

(3) A visible emissions observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions specified in paragraphs (a)(3)(i) through (ii) of this section are met.

[40CFR§60.257(a)(3)]

(i) No more than three emissions points may be read concurrently.

[40CFR§60.257(a)(3)(i)]

(ii) All three emissions points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.

[40CFR§60.257(a)(3)(ii)]

(iii) If an opacity reading for any one of the three emissions points is within 5 percent opacity from the applicable standard (excluding readings of zero opacity), then the observer must stop taking readings for the other two points and continue reading just that single point.

[40CFR§60.257(a)(3)(iii)]

[45CSR13, R13-0760, 4.3.13, 45CSR16]

4.3.1~~24~~. **Test Methods and Procedures for Subpart Y.** The owner or operator must conduct all performance tests required by §60.8 to demonstrate compliance with the applicable emissions standards specified in §60.252 according to the requirements in §60.8 using the applicable test methods and procedures in paragraphs (b)(1) through (8) of this section.

[40CFR§60.257(b), 45CSR13, R13-0760, 4.3.14, 45CSR16]

4.3.1~~35~~. 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, or at such other times specified by this part, 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).

[40CFR§60.8(a), 45CSR16, 45CSR13, R13-0760, 4.3.3]

4.3.1~~46~~. Compliance with opacity standards in this part shall be determined by conducting observations in accordance with Method 9 in appendix A of this part. For purposes of determining initial compliance, the

minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emission sources subject only to an opacity standard).
[40CFR§60.11(b), 45CSR16, 45CSR13, R13-0760, 4.3.4]

4.4. Recordkeeping Requirements

- 4.4.1. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0 of this permit, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures. [45CSR13, R13-0760, 4.4.2]
- 4.4.2. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0 of this permit, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:
- a. The equipment involved.
 - b. Steps taken to minimize emissions during the event.
 - c. The duration of the event.
 - d. The estimated increase in emissions during the event.

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

- e. The cause of the malfunction.
 - f. Steps taken to correct the malfunction.
 - g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.
[45CSR13, R13-0760, 4.4.3]
- 4.4.3. The permittee shall maintain records of all monitoring data required by Section 4.2.6 of this permit by documenting the date and time of each visible emission check, the emission point or equipment/source identification number, the name or means of identification of the observer, the results of the check(s), whether the visible emissions are normal for the process, and, if applicable, all corrective measures taken or planned. The permittee shall also record the general weather conditions (i.e. sunny, approximately 80 °F, 6-10 mph NE wind) during the visual emission check(s). An example form is supplied as Appendix A. Should a visible emission observation be required to be performed per the requirements specified in Method 9, the data records of each observation shall be maintained per the requirements of Method 9. For an emission unit out of service during the normal monthly evaluation, the record of observation may note "out of service" (O/S) or equivalent. [45CSR13, R13-0760, 4.4.4]

- 4.4.4. The temperature of the gas stream at the exit of the thermal dryer shall be continuously recorded on a chart recorder and manually recorded at least once every 12 hours. Records shall be maintained in accordance with 3.4.1. In addition to records of the gas stream temperature, the permittee shall document and maintain records of all periods when the temperature falls outside the range specified in 4.2.7.a and any corrective actions taken during these periods. Maintenance and malfunction records for the thermal dryer and venturi scrubber shall be maintained in accordance with 4.4.1 and 4.4.2. *(045A 045C)* [45CSR§30-5.1.c; 40 C.F.R. §64.9(b)]
- 4.4.5. The pressure loss through the venturi constriction of the scrubber shall be continuously recorded on a chart recorder and manually recorded at least once every 12 hours. Records shall be maintained in accordance with 3.4.1. In addition to records of the pressure loss, the permittee shall document and maintain records of all periods when the pressure loss through the venturi constriction of the scrubber falls outside the range specified in 4.2.7.b(1) and any corrective actions taken during these periods. Maintenance and malfunction records for the venturi scrubber shall be maintained in accordance with 4.4.1 and 4.4.2. *(045A 045C)* [45CSR§30-5.1.c; 40 C.F.R. §64.9(b)]
- 4.4.6. The water supply pressure to the scrubber shall be continuously recorded on a chart recorder and manually recorded at least once every 12 hours. Records shall be maintained in accordance with 3.4.1. In addition to records of the water supply pressure to the scrubber, the permittee shall document and maintain records of all periods when the water supply pressure falls outside the range specified in 4.2.7.b(2) and any corrective actions taken during these periods. Maintenance and malfunction records for the venturi scrubber shall be maintained in accordance with 4.4.1 and 4.4.2. *(045A 045C)* [45CSR§30-5.1.c; 40 C.F.R. §64.9(b)]
- 4.4.7. The pH of the scrubber inlet water and effluent water shall be continuously recorded on a chart recorder and manually recorded at least once every 12 hours. Records shall be maintained in accordance with 3.4.1. In addition to records of the pH of the scrubber inlet water and effluent water, the permittee shall document and maintain records of all periods when the pH of the scrubber inlet water and effluent water falls outside the range established in 4.2.4 and any corrective actions taken during these periods. Maintenance and malfunction records for the venturi scrubber shall be maintained in accordance with 4.4.1 and 4.4.2. *(045A 045C)* [45CSR§30-5.1.c; 40 C.F.R. §64.9(b)]
- 4.4.8. For Compliance Assurance Monitoring (CAM), the owner or operator shall comply with the recordkeeping requirements of permit conditions 3.4.1 and 3.4.2. The owner or operator 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. 64 (such as data used to document the adequacy of monitoring, or records of monitoring, maintenance, or corrective actions). *(045A 045C)* [45CSR§30-5.1.c; 40 C.F.R. §64.9(b)]
- 4.4.9. The permittee shall maintain a record of all monitoring data used to prepare the quarterly "Monitoring Summary, Excursion and Monitoring Plan Performance Report" required under Condition 4.5.4. Such records shall be maintained in accordance with 4.4.1 and 4.4.2. [45CSR§10-8.3.a]
- 4.4.10. The permittee shall inspect all fugitive dust control systems weekly to ensure that they are operated and maintained in conformance with their designs. The permittee shall maintain records of such inspections

and of all scheduled and non-scheduled maintenance. Records shall be maintained stating any maintenance or corrective actions taken as a result of the weekly inspections, and the times the fugitive dust control system(s) are inoperable and any corrective actions taken. [45CSR§30-5.1.c]

- 4.4.11. The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures applied at the facility. [45CSR§30-5.1.c]

4.5. Reporting Requirements

- 4.5.1. Any violation(s) of the allowable visible emission requirement for any emission source discovered during observation using 40 C.F.R. 60, Appendix A, Method 9 must be reported in writing to the Director of the Division of Air Quality as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned. [45CSR13, R13-0760, 4.5.1]

- 4.5.2. For CAM, monitoring reports shall be submitted to the director and at a minimum shall include and be in accordance with information in permit conditions 3.5.6 and 3.5.8, as applicable. Also, at a minimum, the following information, as applicable, shall be included:

- a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- c. 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 owner or operator 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.

(045A 045C) [40 C.F.R. §64.9(a); 45CSR§30-5.1.c]

- 4.5.3. On a quarterly basis, the permittee shall prepare and submit a report titled "Monitoring Summary, Excursion and Monitoring Plan Performance Report" detailing the status of compliance with the 2,000 ppm_v sulfur dioxide emission limit in Condition 4.1.9. The report shall provide the volumetric flow rate of the thermal dryer's exhaust fan (SCFM), the hours of operation of the thermal dryer (hours/month), the total coal burned (tons/month and tons/hour), the percent sulfur in the coal (%S as determined by Condition 4.2.2), calculated SO₂ emissions (lb/hr and ppm_v), shall state whether the source was in compliance with the 2,000 ppm_v limit for the month, and shall indicate any excursions which occurred during each month. [45CSR§30-5.1.c; 45CSR§10-8.3.b]

- 4.5.4. Any violation(s) of the allowable SO₂ requirements in Section 4.1.4 of this permit and recorded in Appendix A must be reported in writing to the Director of the Division of Air Quality as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the

following information: the results of the testing, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.
[45CSR13, R13-0760, 4.5.2]

- 4.5.5. With regard to any testing required by the Director, the permittee shall submit to the Director of Air Quality and the Associate Director - Office of Enforcement and Permit Review (3AP12) of the U.S. EPA a test protocol detailing the proposed test methods, the date, and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information. The test protocol must be received by the Director and the Associate Director no less than thirty (30) days prior to the date the testing is to take place. Test results shall be submitted to the Director and the Associate Director no more than sixty (60) days after the date the testing takes place.
[45CSR13, R13-0760, 4.5.3]

- 4.5.6. **Notification and Record Keeping.** Any owner or operator subject to the provisions of this part shall furnish written notification as follows:
[40CFR§60.7(a)]

- (1) A notification of the date construction (or reconstruction as defined under §60.15) of an affected facility is commenced postmarked no later than 30 days after such date.
[40CFR§60.7(a)(1)]
- (3) A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.
[40CFR§60.7(a)(3)]

[45CSR13, R13-0760, 4.5.4, 45CSR16]

- 4.5.7. The owner or operator of a coal preparation and processing plant that commenced construction, reconstruction, or modification after April 28, 2008, shall maintain in a logbook (written or electronic) on-site and make it available upon request. The logbook shall record the following:
[40CFR§60.258(a)]

- (1) The manufacturer's recommended maintenance procedures and the date and time of any maintenance and inspection activities and the results of those activities. Any variance from manufacturer recommendation, if any, shall be noted.
[40CFR§60.258(a)(1)]
- (2) The date and time of periodic coal preparation and processing plant visual observations, noting those sources with visible emissions along with corrective actions taken to reduce visible emissions. Results from the actions shall be noted.
[40CFR§60.258(a)(2)]
- (3) The amount and type of coal processed each calendar month.
[40CFR§60.258(a)(3)]
- (4) The amount of chemical stabilizer or water purchased for use in the coal preparation and processing plant.
[40CFR§60.258(a)(4)]
- (5) Monthly certification that the dust suppressant systems were operational when any coal was processed

and that manufacturer's recommendations were followed for all control systems. Any variance from the manufacturer's recommendations, if any, shall be noted.

[40CFR§60.258(a)(5)]

- (6) Monthly certification that the fugitive coal dust emissions control plan was implemented as described. Any variance from the plan, if any, shall be noted. A copy of the applicable fugitive coal dust emissions control plan and any letters from the Administrator providing approval of any alternative control measures shall be maintained with the logbook. Any actions, e.g. objections, to the plan and any actions relative to the alternative control measures, e.g. approvals, shall be noted in the logbook as well.

[40CFR§60.258(a)(6)]

- (7) For each bag leak detection system, the owner or operator must keep the records specified in paragraphs (a)(7)(i) through (iii) of this section.

[40CFR§60.258(a)(7)]

- (i) Records of the bag leak detection system output;
[40CFR§60.258(a)(7)(i)]
- (ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection settings; and
[40CFR§60.258(a)(7)(ii)]
- (iii) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3 hours of the alarm.
[40CFR§60.258(a)(7)(iii)]

- (8) A copy of any applicable monitoring plan for a digital opacity compliance system and monthly certification that the plan was implemented as described. Any variance from plan, if any, shall be noted.

[40CFR§60.258(a)(8)]

- (9) During a performance test of a wet scrubber, and each operating day thereafter, the owner or operator shall record the measurements of the scrubber pressure loss, water supply flow rate, and pH of the wet scrubber liquid.

[40CFR§60.258(a)(9)]

- (10) During a performance test of control equipment other than a wet scrubber, and each operating day thereafter, the owner or operator shall record the measurements of the reagent injection flow rate, as applicable.

[40CFR§60.258(a)(10)]

[45CSR13, R13-0760, 4.5.5, 45CSR16]

- 4.5.8 (b) For the purpose of reports required under section 60.7(c), any owner operator subject to the provisions of this subpart also shall report semiannually periods of excess emissions as follow:

[40CFR§60.258(b)]

~~(1) The owner or operator of an affected facility with a wet scrubber shall submit semiannual reports to the Administrator or delegated authority of occurrences when the measurements of the scrubber pressure loss, water supply flow rate, or pH of the wet scrubber liquid vary by more than 10 percent from the average determined during the most recent performance test.~~

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~~[40CFR§60.258(b)(1)]~~

~~(2) The owner or operator of an affected facility with control equipment other than a wet scrubber shall submit semiannual reports to the Administrator or delegated authority of occurrences when the measurements of the reagent injection flow rate, as applicable, vary by more than 10 percent from the average determined during the most recent performance test.~~

~~[40CFR§60.258(b)(2)]~~

(13) All 6-minute average opacities that exceed the applicable standard.

[40CFR§60.258(b)(3)]

[45CSR13, R13-0760, 4.5.6, 45CSR16]

4.5.9 **Reporting for Subpart Y - Results of Initial Performance Tests.** The owner or operator of an affected facility shall submit the results of initial performance tests to the Administrator or delegated authority, consistent with the provisions of section 60.8. The owner or operator who elects to comply with the reduced performance testing provisions of sections 60.255(c) or (d) shall include in the performance test report identification of each affected facility that will be subject to the reduced testing. The owner or operator electing to comply with section 60.255(d) shall also include information which demonstrates that the control devices are identical.

[40CFR§60.258(c), 45CSR16, 45CSR13, R13-0760, 4.5.7]

4.5.10 **Reporting for Subpart Y - WebFIRE Data Base.** After July 11, 2011, within 60 days after the date of completing each performance evaluation conducted to demonstrate compliance with this subpart, the owner or operator of the affected facility must submit the test date to EPA by successfully entering the data electronically into EPA's WebFIRE data base available at <http://cfpub.epa.gov/oarweb/index.cfm?action=fire.main>. For performance tests that cannot be entered into WebFIRE (i.e. Method 9 of appendix A-4 of this part opacity performance tests) the owner or operator of the affected facility must mail a summary copy to United States Environmental Protection Agency, Energy Strategies Group, 109 TW Alexander DR, mail code D243-01, RTP, NC 27711.

[40CFR§60.258(d), 45CSR16, 45CSR13, R13-0760, 4.5.8]

4.6. Compliance Plan

None.

CERTIFICATION OF DATA ACCURACY

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

Signature¹
(please use blue ink)

Name and Title
(please print or type)

Name _____ Title _____

Telephone No. _____ Fax No. _____

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

- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
 - (i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
 - (ii) the delegation of authority to such representative is approved in advance by the Director;
- b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of USEPA); or
- d. The designated representative delegated with such authority and approved in advance by the Director.