



**Permit / Application Information Sheet**  
**Division of Environmental Protection**  
**West Virginia Office of Air Quality**

<b>Company:</b>	American Bituminous Power Partners, L. P.	<b>Facility:</b>	Grant Town Plant
<b>Region:</b>	6	<b>Plant ID:</b>	049-00026
<b>Application #:</b>	R14-0005F		
<b>Engineer:</b>	Kessler, Joe	<b>Category:</b>	Power Plt
<b>Physical Address:</b>	228 ABPP Drive Grant Town WV 26574	<b>SIC:</b> [4911] ELECTRIC, GAS AND SANITARY SERVICES - ELECTRIC SERVICES	<b>NAICS:</b> [221112] Fossil Fuel Electric Power Generation
<b>County:</b>	Marion		
<b>Other Parties:</b>	Consultant - WARD, PATRICK (304)-342-1400 ENV_CONT - Drennen, Don 304-278-6103 PLT_MGR - Friend, Steve (304)-278-6113		

**Information Needed for Database and AIRS**  
 No required information is missing.

**Regulated Pollutants**

Summary from this Permit R14-0005F		
<b>Air Programs</b>	<b>Applicable Regulations</b>	
TITLE V		
Title V/Major		
<b>Fee Program</b>	<b>Fee</b>	<b>Application Type</b>
3C	\$1,000.00	MODIFICATION

**Notes from Database**  
 Permit Note: Modification to voluntarily take a 1,990 TPY SO2 emission limit to become a synthetic minor with respect to the DRR.

**Activity Dates**

APPLICATION RECEIVED	05/17/2016
APPLICATION FEE PAID	05/18/2016
ASSIGNED DATE	05/18/2016
APPLICANT PUBLISHED LEGAL AD	05/20/2016
APPLICATION DEEMED COMPLETE	06/15/2016

*NOTICE*

**NON-CONFIDENTIAL**

Please note, this information sheet is not a substitute for file research and is limited to data entered into the AIRTRAX database.

Company ID: 049-00026  
 Company: American Bituminous Power Part  
 Printed: 08/05/2016  
 Engineer: Kessler, Joe

# IPR FILE INDEX

**Applicant :** American Bituminous Power Partners, L.P.  
**Facility :** Grant Town Power Station

**Plant ID No.:** 049-00026  
R14-0005F

## Chronological Order - Add Index Pages As Necessary

Date	To	From	Subject	# of pages
5/18/16	ABPP	Sandra Adkins	48-Hour Letter	
6/01/16	Joe Kessler	ABPP	Affidavit of Publication	
6/15/16	ABPP	Joe Kessler	Completeness Determination	
	File	Joe Kessler	DAQ/ABPP E-mails	
8/16/16	File	Joe Kessler	Draft Permit R14-0005F, Evaluation/Fact Sheet, Tracking Manifest	
8/18/16	Various	Sandra Adkins	Public Notice Documents	

JRK  
8/16/16

# AIR QUALITY PERMIT NOTICE

## Notice of Intent to Approve

On May 17, 2016, American Bituminous Power Partners, L.P. applied to the WV Department of Environmental Protection, Division of Air Quality (DAQ) for a permit to modify the Grant Town Power Station located at 288 ABPP Drive, Grant Town, Marion County, WV at latitude 39.56203 and longitude -80.16270. A preliminary evaluation has determined that all State and Federal air quality requirements will be met by the proposed modification. The DAQ is providing notice to the public of its preliminary determination to issue the permit as R14-0005F.

The following change in the potential emissions of the facility will be authorized by this permit action: Sulfur Dioxide, -2,018.13 tons per year (TPY).

Written comments or requests for a public meeting must be received by the DAQ before 5:00 p.m. on XXXXX. A public meeting may be held if the Director of the DAQ determines that significant public interest has been expressed, in writing, or when the Director deems it appropriate.

The purpose of the DAQ's permitting process is to make a preliminary determination if the proposed modification will meet all State and Federal air quality requirements. The purpose of the public review process is to accept public comments on air quality issues relevant to this determination. Only written comments received at the address noted below within the specified time frame, or comments presented orally at a scheduled public meeting, will be considered prior to final action on the permit. All such comments will become part of the public record.

Joe Kessler, PE  
WV Department of Environmental Protection  
Division of Air Quality  
601 57th Street, SE  
Charleston, WV 25304  
Telephone: 304/926-0499, ext. 1219  
FAX: 304/926-0478

*Entire Document*  
**NON-CONFIDENTIAL**

Additional information, including copies of the draft permit, application and all other supporting materials relevant to the permit decision may be obtained by contacting the engineer listed above. The draft permit and engineering evaluation can be downloaded at:

[www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx](http://www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx)

## **Kessler, Joseph R**

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**From:** Adkins, Sandra K  
**Sent:** Wednesday, August 17, 2016 2:43 PM  
**To:** Wheeler, Cathy L  
**Cc:** Kessler, Joseph R  
**Subject:** DAQ Public Notice

Please see below the Public Notice for Draft Permit R14-0005F for American Bituminous Power Partners, L.P.'s Grant Town Power Station located in Marion County.

The notice will be published in the *Times West Virginian* on Thursday, August 18, 2016, and the thirty day public comment period will end on Monday, September 19, 2016.

### **AIR QUALITY PERMIT NOTICE**

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## Kessler, Joseph R

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**From:** Adkins, Sandra K  
**Sent:** Wednesday, August 17, 2016 2:43 PM  
**To:** 'wentworth.paul@epa.gov'; 'bradley.megan@epa.gov'; ddrennen@ambitwv.com; peward@potesta.com  
**Cc:** Durham, William F; McKeone, Beverly D; McCumbers, Carrie; Kessler, Joseph R; Hammonds, Stephanie E; Rice, Jennifer L; Taylor, Danielle R; Tephabock, Brian S; Betonte, Donna M  
**Subject:** WV Draft Permit R14-0005F for American Bituminous Power Partners, L.P.; Grant Town Power Station  
**Attachments:** 14-0005F.PDF; Eval14-0005F.PDF; notice.pdf

Please find attached the Draft Permit R14-0005F, Engineering Evaluation, and Public Notice for American Bituminous Power Partners, L.P.'s Grant Town Power Station located in Marion County.

The notice will be published in the *Times West Virginian* on Thursday, August 18, 2016, and the thirty day comment period will end on Monday, September 19, 2016.

Should you have any questions or comments, please contact the permit writer, Joe Kessler, at 304 926-0499 x1219.

## **Kessler, Joseph R**

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**From:** Adkins, Sandra K  
**Sent:** Tuesday, August 16, 2016 12:28 PM  
**To:** bamiller@timeswv.com  
**Cc:** Kessler, Joseph R  
**Subject:** Publication of Class I Legal Ad for the WV Division of Air Quality

Please publish the information below as a Class I legal advertisement (one time only) in the Thursday, August 18, 2016, issue of the *Times West Virginian*. Please let me know that this has been received and will be published as requested. Thank you.

Send the invoice for payment and affidavit of publication to:

**Sandra Adkins**

**WV Department of Environmental Protection  
DIVISION OF AIR QUALITY**

**601- 57th Street**

**Charleston, WV 25304**

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**west virginia department of environmental protection**

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Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: (304) 926-0475 • Fax: (304) 926-0479

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

## **ENGINEERING EVALUATION / FACT SHEET**

### **BACKGROUND INFORMATION**

Application No.:	R14-0005F
Plant ID No.:	049-00026
Applicant:	American Bituminous Power Partners, L.P.
Facility Name:	Grant Town Power Station
Location:	Grant Town, Marion County
NAICS Codes:	221112
Application Type:	Modification
Received Date:	May 17, 2016
Engineer Assigned:	Joe Kessler
Fee Amount:	\$1,000
Date Received:	May 18, 2016
Complete Date:	June 15, 2016
Due Date:	September 13, 2016
Applicant's Ad Date:	May 20, 2016
Newspaper:	<i>Times West Virginian</i>
UTM's:	531.0 km Easting • 4,495.1 km Northing • Zone 17
Latitude/Longitude:	39.56203/-80.16270
Description:	Modification to limit SO <sub>2</sub> emissions below the applicability threshold for the Data Requirements Rule (DRR).

*Entire Document*  
**NON-CONFIDENTIAL**

American Bituminous Power Partners, L.P. (AmBit) was initially issued Prevention of Significant Deterioration (PSD) Permit Number R14-0005 on March 10, 1989 for the construction of the Grant Town Power Station located just east of Grant Town, Marion County, West Virginia. The 80 mW<sub>e</sub> base-load facility was permitted for two (2) 551.9 mmBtu/hr coal refuse-fired circulating fluidized bed (CFB) boilers along with ancillary coal refuse, limestone, and ash handling systems. Since that time, the facility has undergone additional permitting. The following will briefly describe each additional permitting action:

- On February 28, 1992, AmBit was issued Permit Number R14-0005A for the addition of specific stack emission limits for the two (2) CFBs;
- On July 17, 1992, AmBit was issued Permit Number R14-0005B for additional small changes to the facility;

- On October 7, 2003, AmBit was issued a Class II Administrative Update (A/U) as Permit Number R14-0005C to increase the volume of open stockpiles and to add a crusher;
- On December 22, 2003, AmBit was issued a Class II A/U as Permit Number R14-0005D for an additional open stockpile; and
- On August 6, 2010, AmBit was issued a Class II A/U as Permit Number R14-0005E to make the following changes: (1) allow for use of alternative chemical dust suppressants, (2) change footnoted HAP language under Table A.1, and (3) allow common stack SO<sub>2</sub> monitoring.

In addition to the above, AmBit has been issued many “no permit needed” determinations for a variety of small changes at the facility that did not meet permit applicability thresholds.

## **DESCRIPTION OF PROCESS/MODIFICATION**

### ***Existing Facility***

AmBit’s Grant Town Power Station is an approximately 80 mW<sub>e</sub> base-load electric generating unit (EGU) located just east of Grant Town, Marion County, West Virginia. The facility consists primarily of two (2) 551.9 mmBtu/hr coal refuse-fired circulating fluidized bed (CFB) boilers. Additionally, the station contains ancillary coal refuse, limestone, and ash handling systems.

### ***Proposed Modifications***

AmBit has now submitted a permit application to take a federally enforceable emissions limit on SO<sub>2</sub> below the applicability threshold for the DRR. The DRR requires that any limit to be taken to remove DRR applicability must be set at less than 2,000 tons per year on a 30-day rolling average basis using a continuous emissions monitoring system (CEMS). Therefore, AmBit is proposing to take a limit of 1,990 tons per year (TPY) for the combined discharge of Boiler #1A (1S) and Boiler #1B (2S): which are the two CFB boilers. Both of these units discharge through a single stack (1E). This equates to a 30-day rolling average basis of 163.6 tons (1,990 tpy divided by 365 days per year and multiplied by 30 days). Furthermore, this would equate to a SO<sub>2</sub> emission rate of 0.41 lb/mmBtu based on operating at 551.9 mmBtu/hr per each CFB and a full year of operations. AmBit is not proposing any physical changes as part of the modification.

## **SITE INSPECTION**

Due to the nature of the modification, the writer did not conduct a site inspection for this permitting action. According to information in the DAQ database, the last full on-site inspection occurred on May 23, 2016 by Mr. Michael Rowe of the Compliance/Enforcement Section. The result of this inspection was “Status Code 30 - In Compliance.”

## AIR EMISSIONS AND CALCULATION METHODOLOGIES

AmBit has proposed an aggregate (Boilers 1S and 2S) annual SO<sub>2</sub> emission limit of 1,990 TPY. As noted above this was based on keeping the facility-wide SO<sub>2</sub> PTE of Grant Town below the 2,000 TPY applicability threshold for the DRR. This was not a calculated limit and, therefore, AmBit did not include any emission calculations in the application. Compliance will be based on using CEMS. As there are no other substantive SO<sub>2</sub> emission sources located at the facility, this limit will provide a facility-wide enforceable SO<sub>2</sub> potential-to-emit (PTE) below 2,000 TPY.

Using information from the most recent Title V Fact Sheet (R30-4900026-2014), the existing facility-wide SO<sub>2</sub> PTE is 4,012.75 TPY. Therefore, the requested change will result in a decrease of 2,018.13 TPY of SO<sub>2</sub>.

## REGULATORY APPLICABILITY

The following will discuss only the regulatory applicability of general and specific rules to the emission units that have been proposed to be modified as part of this permitting action. It is important to note that as no physical changes have been proposed and the only pollutant affected is annual SO<sub>2</sub> emissions, only applicable rules with requirements pertaining to *annual* SO<sub>2</sub> shall be discussed.

### ***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***

The proposed modification of the Grant Town Power Station does not have the potential to increase the emissions of a regulated pollutant. Therefore, the proposed changes would normally be eligible to be reviewed as a Class II Administrative Update. However, AmBit voluntarily submitted the application as a modification (due to concerns over federal enforceability) and it was reviewed as such. Pursuant to §45-13-5.1, “[n]o person shall cause, suffer, allow or permit the construction, modification, relocation and operation of any stationary source to be commenced without . . . obtaining a permit to construct.”

As required under §45-13-8.3 (“Notice Level A”), AmBit placed a Class I legal advertisement in a “newspaper of *general circulation* in the area where the source is . . . located.” The ad ran on May 20, 2016 in the *Times West Virginian* and the affidavit of publication for this legal advertisement was submitted on June 1, 2016.

### ***45CSR14: Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration - (NON APPLICABILITY)***

The Grant Town Power Station is located in Marion County, WV. Marion County is classified as "in attainment" with all National Ambient Air Quality Standards (NAAQS). As the

facility is a "listed source" under §45-14-2.43 ("Fossil-Fuel-Fired Steam Electric Plants Greater Than 250 Million Btu/Hour Heat Input"), the individual major source applicability threshold for all pollutants is 100 TPY. Based on information in the most recent Title V Fact Sheet (R30-4900026-2014), the existing facility-wide PTE of the Grant Town Power Station is greater than 100 TPY for CO, NO<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>. Therefore, the existing facility is defined as a "major stationary source" under 45CSR14 and the modifications evaluated herein are subject to a PSD Applicability Analysis.

The proposed adoption of an aggregate SO<sub>2</sub> emission limit for the boilers is considered, pursuant to §45-14-2.40, a "physical change or a *change in the method of operation* [emphasis added]." Therefore, to determine if the project is defined as a "major modification," pursuant to §45-14-3.4(a), the project is examined under a two-step applicability test: "[A] project is a major modification for a regulated NSR pollutant if it causes two types of emissions increases -- a significant emissions increase (as defined in subsection [§45-14-2.75]), and a significant net emissions increase (as defined in subsections [§45-14-2.46] and [§45-14-2.74]). The proposed project is not a major modification if it does not cause a significant emissions increase. If the proposed project causes a significant emissions increase, then the project is a major modification only if it also results in a significant net emissions increase."

Therefore, for the proposed change to meet the definition of a major modification, the change itself must result in a significant emissions increase. The methodology for calculating the emissions increase under the first step is given under Sections §45-14-3.4(b), 3.4(c), 3.4(d) and 3.4(f). The substantive language relevant to the changes evaluated herein is given below:

[§45-14-3.4(b)]

The procedure for calculating (before beginning actual construction) whether a significant emissions increase (i.e., the first step of the process) will occur depends upon the type of emissions units being modified, according to subdivisions 3.4.c through 3.4.f.

[§45-14-3.4(c)]

Actual-to-projected-actual applicability test for projects that only involve existing emissions units. -- A significant emissions increase of a regulated NSR pollutant is projected to occur if the sum of the difference between the projected actual emissions (as defined in subsection 2.63) and the baseline actual emissions (as defined in subdivisions 2.8.a and 2.8.b), for each existing emissions unit, equals or exceeds the significant amount for that pollutant (as defined in subsection 2.74).

It is important to note that calculating baseline actual emissions for EGUs is unique and is given specific requirements under §45-14-2.8. The major difference for EGUs compared with non-EGUs is that the "lookback" period only extends back five years from the "period immediately preceding when the owner or operator begins actual construction of the project." In this case a conservative estimate of the begin actual construction date would be when the permit is issued, approximately October 2016. Therefore, the lookback period would begin in October 2011.

In Attachment N of the permit application, AmBit included an actual-to-projected-actual applicability analysis. According to AmBit, actual emissions were projected out for five years (§45-14-2.63) and were based on AmBit's "long term financial model," a model that includes projections for operating hours and plant generation. The model includes assumptions for

maintenance outage periods and plant operating history to accurately reflect operating time projections. Heat input determinations are then made from that same model based on generation levels and unit heat rate estimates that are also based on operating history and the design characteristics of the facility. Projected actual emissions were then calculated from these operating hour and heat input projections from that long term model.

However, Ambit also included in the analysis the use of emissions, pursuant to the definition of “projected actual emissions” under §45-14-2.63, that the boilers “could have accommodated.” They also included emissions in the analysis that occurred prior to October 2011. However, using the past actual emissions data provided (based on CEMS) and not using any exclusion for emissions that could have been accommodated (sufficient justification for exclusion was not provided), the project’s emissions still do not cause a significant emissions increase (see Table 1).

**Table 1: PSD Applicability Analysis (in tons/year)**

Pollutant	BAE	2-Yr Period Start	PAE	Difference	PSD Threshold <sup>(1)</sup>	PSD Review?
CO	764.74	Nov-11	774.85	10.11	100	No
NO <sub>x</sub>	1,635.50	Nov-12	1,653.50	18.00	40	No
PM <sub>2.5</sub>	46.23	Jan-12	50.46	4.23	10	No
PM <sub>10</sub>	94.90	Jan-12	97.49	2.59	15	No
PM	128.71	Dec-11	132.80	4.09	25	No
SO <sub>2</sub>	2,223.70	Nov-12	1,797.76	(425.94)	40	No
VOCs	36.35	Jan-12	36.94	0.59	40	No
Lead	0.0124	Nov-12	0.0208	0.0084	1	No

(1) §45-14-2.74(a).

Based on the information submitted by AmBit in Attachment N of the permit application (and in accordance with the provisions of 45CSR14), the modification evaluated herein is determined not to be defined as a “major modification” and, therefore, PSD Review pursuant to 45CSR14 is not required.

**45CSR30: Requirements for Operating Permits**

45CSR30 provides for the establishment of a comprehensive air quality permitting system consistent with the requirements of Title V of the Clean Air Act. The Grant Town Power Station, defined under Title V as a “major source,” was last issued a Title V renewal permit on September 30, 2014 (R30-4900026-2014). Proposed changes evaluated herein must also be incorporated into the facility's Title V operating permit. Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

## **TOXICITY OF NON-CRITERIA REGULATED POLLUTANTS**

No change in any non-criteria regulated pollutants was proposed as part of this permitting action.

## **AIR QUALITY IMPACT ANALYSIS**

The estimated maximum increase in emissions are less than applicability thresholds that would define the proposed modification as “major” under 45CSR14 and, therefore, no air quality impacts modeling analysis was required. Additionally, based on the nature of the modification and the location of the source, an air quality impacts modeling analysis was not required under 45CSR13, Section 7.

## **MONITORING, COMPLIANCE DEMONSTRATIONS, REPORTING, AND RECORDING OF OPERATIONS**

The only substantive change to the monitoring, compliance demonstration, reporting, and record-keeping requirements (MRR) in the draft permit was an inclusion of a requirement under B.9(b) specifically requiring AmBit to show compliance with the new DRR SO<sub>2</sub> limitations using a CEMS.

## **PERFORMANCE TESTING OF OPERATIONS**

There was no change in the existing performance testing requirements.

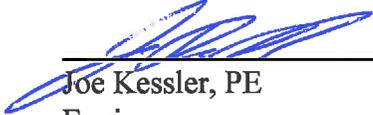
## **CHANGES TO PERMIT R14-0005E**

The substantive changes made changes to R14-0005E were limited to:

- New DRR SO<sub>2</sub> limitations added under SPECIFIC REQUIREMENTS A.1(a);
- Revised existing SO<sub>2</sub> limitations under SPECIFIC REQUIREMENTS A.9;
- Inclusion of a new requirement under OTHER REQUIREMENTS B.9(b) specifically requiring AmBit to show compliance with the new DRR SO<sub>2</sub> limitations using a Continuous Emission Monitoring System (CEMS); and
- Inclusion of language from §45-14-19.8(d) under OTHER REQUIREMENTS B.22 that requires AmBit to submit an annual certification of emissions for the previous year.

**RECOMMENDATION TO DIRECTOR**

The information provided in the permit application indicates that compliance with all applicable state and federal air quality regulations will be achieved. Therefore, I recommend to the Director the issuance of a Permit Number R14-0005F to American Bituminous Power Partners, L.P. for the proposed modification of the Grant Town Power Station located in Grant Town, Marion County, WV.

  
\_\_\_\_\_  
Joe Kessler, PE  
Engineer

8/05/14  
\_\_\_\_\_  
Date



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**west virginia department of environmental protection**

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Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: (304) 926-0475 • Fax: (304) 926-0479

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

**PERMIT FOR A MODIFICATION TO  
A COAL FIRED POWER PLANT**

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

*This permit supersedes and replaces Permit Number R14-0005E issued on August 6, 2010.*

Name of Permittee: American Bituminous Power Partners, L.P.

Name of Facility: Grant Town Power Plant

Permit No.: R14-0005F

Plant ID No.: 049-00026

Effective Date of Permit: **DRAFT**

Permit Writer: Joseph Kessler

Facility Mailing Address: P.O. Box 159  
Grant Town, WV 26574

County: Marion

Nearest City or Town: Grant Town

UTM Coordinates: Easting: 572.4 km Northing: 4,379.25 km Zone: 17

Directions to Exact Location: US Route 19 north from Fairmont, turn left in Rivesville and follow Paw Paw Creek for four (4) miles.

Type of Facility or Modification: Modification to add an aggregate annual SO<sub>2</sub> limit of 1,990 tons/year for the two CFB Boilers (1S and 2S) so as to limit facility-wide annual SO<sub>2</sub> emissions below the Data Requirements Rule (DRR) applicability level.

*Entire Document*  
**NON-CONFIDENTIAL**

*The source is subject to 45CSR30. The permittee has the duty to update the facility's Title V (45CSR30) permit to reflect the changes permitted herein.*

**Promoting a Healthy Environment**

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

## A. SPECIFIC REQUIREMENTS

1. Air pollutant emissions from the stack (1E) serving the two permitted circulating fluidized bed boilers, identified as 1S and 2S, shall not exceed any of the following limitations:

a. **Table A.1(a): CFB Combined Stack 1E Emission Limits**

Pollutant	lb/hr	lb/mmBtu	Concentration @ 3.5% O <sub>2</sub>
Particulate Matter	33.1	0.03	0.016 gr/dscf
Sulfur Dioxide <sup>(1)</sup>	915.84	0.83	342 ppm <sub>v</sub>
Nitrogen Oxides <sup>(2)</sup>	441.5	0.40	230 ppm <sub>v</sub>
VOCs	8.8	0.008	-----
CO	187.6	0.17	160 ppm <sub>v</sub>
Pb <sup>(3)</sup>	0.136	1.22 x 10 <sup>-4</sup>	-----
Hg <sup>(3)</sup>	0.02	1.8 x 10 <sup>-5</sup>	-----
Fluorides <sup>(3)</sup>	0.671	6.08 x 10 <sup>-4</sup>	-----
Be <sup>(3)</sup>	9.0 x 10 <sup>-5</sup>	8.18 x 10 <sup>-6</sup>	-----

- (1) For the purpose of determining compliance with provisions of emission limitations under Specific Requirements A.1 a three hour averaging time shall be utilized. For the purpose of determining compliance with the provisions of 45CSR10 and 45CSR16 (40 CFR 60) a thirty day rolling average shall be utilized.
- (2) For the purpose of determining compliance with provisions of emission limitations under Specific Requirements A.1 and 45CSR16 (40 CFR 60) a 30 day rolling averaging time is to be utilized.
- (3) Maximum permissible levels of lead, mercury, fluorides and beryllium may be established below the levels specified above based upon test data obtained in accordance with Other Requirements B.17-B.20 of the permit following start-up of the permitted facility.

b. **Table A.1(b): Additional CFB Combined Stack 1E Emission Limits for SO<sub>2</sub>**

SO <sub>2</sub> Emissions	Averaging Period
163.6 Tons	30-Day Rolling Average
0.41 lb/mmBtu	30-Day Rolling Average
1,990 Tons	12 Month Rolling Total

2. Coal refuse handling/storage facilities shall consist of the following and particulate emissions shall be controlled as specified with maximum particulate emissions not to exceed the following:

**Table A.2: Coal Refuse Handling/Storage**

Equipment	Control Equipment	PM limitation for control equipment discharge lb/hr (gr/SCF)
Gob Receiving Hoppers	Partial Enclosure with water/chemical dust suppression system	-----
Transfer Point/Feeder Fuel Preparation Building Feed Belt Conveyor	Full enclosure	-----
Gob Belt Conveyors to Fuel Preparation Building	Partial enclosure	-----
Gob Fuel Preparation Building: 1 Double Deck Screen, 3 Crushers, and Equipment Transfer Points	Full enclosure of all equipment and transfer points. Gob is immersed in water upon entering building	-----
2 Thermal-Disc-Type Coal Fines Dryer	Scrubber 11C	0.90 (0.009)
Transfer Belt Conveyor from Crusher Building to Gob Bunker Feed Conveyor	Full enclosure and ventilation into main boiler building	-----
Transfer Point from Fuel Preparation Building Belt Conveyor to Gob Storage Bin Feed Conveyors, Bin Feed Conveyors at Transfer Building	Full enclosure and evacuation to Baghouse 4C	0.85 (0.02)
Two (2) 950 Ton gob Bins and Two (2) 150 Ton High Btu Fuel Bins, Bin Feed Conveyors and Transfer Points	Full enclosure and evacuation to Baghouse 5C	1.03 (0.01)

3. Limestone receiving, handling, and storage facilities shall consist of the following and particulate emissions shall be controlled as specified with maximum particulate emissions not to exceed the following:

**Table A.3: Limestone Handling/Storage**

Equipment	Control Equipment	PM limitation for control equipment discharge lb/hr (gr/SCF)
Limestone Receiving Hopper	Enclosure and water/chemical dust suppression system	-----
Limestone Surge Hopper	Baghouse 7C	0.35 (0.01)
Two (2) 70 TPH Limestone Mills (One DFM Mill and one Back-up Hammermill)	Baghouse 6C	2.1 (0.02)
One (1) 3600 Ton Limestone Storage Silo	Baghouse 8C	0.34 (0.01)

4. Ash transfer, loading, and storage facilities shall consist of the following and particulate emissions from the entire system shall be controlled as specified with maximum particulate emissions not to exceed the following:

**Table A.4: Ash Handling/Storage**

Equipment	Control Equipment	PM limitation for control equipment discharge lb/hr (gr/SCF)
Vacuum System for Collected Flyash in Baghouses and Air Preheater Hoppers (separate system for each boiler)	Two cyclones ID Nos. 14-C/A & 15-C/A and two Baghouses ID Nos. 14C & 15C	14C - 0.61 (0.018) 15C - 0.61 (0.018)
Vacuum System for Bottom Ash/Cooler Rejects (separate system for each boiler) 3100 ton 44 foot I.D. Ash Silo Emergency Dry Ash Loadout	Baghouse 9C	0.52 (0.016)
Wet Ash Loadout	Rotary-wet unloader to thoroughly wet ash prior to loading and handling.	-----

5. All unpaved roads used for coal and/or ash haulage shall be surfaced with red dog or suitable aggregate and shall be treated at least twice per month with properly mixed Coherex or Soil-Sement dust suppressants. Other chemical dust suppressants as effective as the above brands may be used after receiving prior approval from the Division of Air Quality.
6. All paved roadways or haulways on the premises and serving the permitted facility shall be vacuum swept five (5) days per week. Berms along these roads or haulways shall be treated with Coherex or Soil-Sement once per calendar quarter. Other chemical dust suppressants as effective as the above brands may be used after receiving prior approval from the Division of Air Quality.
7. Open stockpile of gob shall be limited to not more than 170,000 tons located adjacent to the gob loading hoppers, 4,000 tons of processed fuel located adjacent to the fuel/limestone conveyor transfer buildings, 11,000 tons of processed fuel located adjacent to the truck weigh station, 10,000 tons of high BTU fuel located adjacent to the truck weigh station, and 70,000 tons of silt located immediately east of the gob storage area and 3,000 tons of silt located under/adjacent to the silt storage barn. Dust entrainment or emissions from the stockpiling of gob, processed fuel, high BTU fuel or silt, and wind erosion shall be minimized by treating with a dust suppressant.
8. In addition to that limestone stored within the limestone silo, an open stockpile adjacent to the limestone feed hoppers shall be restricted to 5,000 tons. A single additional open stockpile of limestone located on property shall be

restricted to an eleven (11) day supply or no more than 10,000 tons. Total open stockpiling of limestone on property shall be limited to no more than 15,000 tons at any one time. Dust entrainment or emissions from the stockpiling shall be minimized by a chemical dust suppressant system.

9. The aggregate sulfur dioxide reduction efficiency of the two (2) circulating fluidized bed boilers shall be as follows for each operating 24-hour period:

**Table A.9: SO<sub>2</sub> Reduction Requirements**

24-hr Potential SO <sub>2</sub> Emission Rate (lb/mmBtu)	Reduction Efficiency Required (%)
15.96	97.4
4.1 or less	90.0

The required SO<sub>2</sub> reduction efficiency for each 24 hour period in which the potential SO<sub>2</sub> emission rate falls between 4.1 lb/mmbtu and 15.96 lb/mmbtu shall be determined by linear interpolation.

10. The throughput of fuel into the Ro-Pro Roll Crusher identified in permit application R14-0005C as 18S shall not exceed 75 tons per hour nor 657,000 tons per year. Compliance with the throughput limit shall be determined using a rolling yearly total. The Ro-Pro Roll Crusher shall be fully enclosed.

## **B. OTHER REQUIREMENTS**

1. The permittee shall comply with all applicable provisions of 45CSR2, 45CSR10, 45CSR13, 45CSR16, 45CSR30, 40 CFR 60 Subpart Y, 40 CFR 60 Subpart Da and 40 CFR 60 Subpart OOO provided that the permittee shall comply with any more stringent requirements as may be forth under Specific Requirements, Section (A) of this permit.
2. The facility is subject to the requirements of 45CSR2. Pertinent sections applying to these operations include, but are not limited to:

### **§45-2-3.1**

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

### **§45-2-3.2**

Compliance with the visible emission requirements of subsection 3.1 shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by

the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of subsection 3.1.

#### §45-2-3.3

If the owner or operator of a fuel burning unit can demonstrate to the satisfaction of the Director that compliance with subsection 3.1 cannot practically be achieved with respect to soot blowing operations or during the cleaning of a fire box, the Director may formally approve an alternative visible emissions standard applicable to the fuel burning unit for soot blowing periods; provided that the exception period shall not exceed a total of six (6) six minute periods in a calendar day with visible emissions limited to thirty percent (30%) opacity, as determined in accordance with 40 CFR 60, Appendix A, Method 9, or by using measurements from a certified continuous opacity monitoring system.

#### §45-2-4.1

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

##### §45-2-4.1.a

For type 'a' fuel burning units, the product of 0.05 and the total design heat inputs for such units in million British Thermal Units (B.T.U.'s) per hour, provided however that no more than twelve hundred (1200) pounds per hour of particulate matter shall be discharged into the open air from all such units.

#### §45-2-5.1

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

##### §45-2-5.1.a

Stockpiling of ash or fuel either in the open or in enclosures such as silos;

##### §45-2-5.1.b

Transport of ash in vehicles or on conveying systems, to include spillage, tracking or blowing of particulate matter from or by such vehicles or equipment; and

§45-2-5.1.c

Ash or fuel handling systems and ash disposal areas.

§45-2-9.1

The visible emission standards set forth in section 3 shall apply at all times except in periods of start-ups, shutdowns and malfunctions. Where the Director believes that start-ups and shutdowns are excessive in duration and/or frequency, the Director may require an owner or operator to provide a written report demonstrating that such frequent start-ups and shutdowns are necessary.

3. The facility is subject to the requirements of 45CSR10. Pertinent sections applying to these operations include, but are not limited to:

§45-10-7.1

No person shall construct, modify or relocate any source of sulfur dioxide without first obtaining a permit in accordance with the provisions of W. Va. Code §22-5-1 et seq., and Series 13, 14, 19 and 30 of Title 45.

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

§45-13-6.1

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

§45-13-10.2

The Secretary may suspend or revoke a permit or general permit registration if, after (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.

§45-13-10.3

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.

5. The facility is subject to the requirements of 40 CFR 60, Subpart Y. Pertinent sections applying to these operations include, but are not limited to:

**§60.254(a)**

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 on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.

**§60.255(a)**

An owner or operator of each affected facility that commenced construction, reconstruction, or modification on or before April 28, 2008, must conduct all performance tests required by §60.8 to demonstrate compliance with the applicable emission standards using the methods identified in §60.257.

**§60.257(a)**

The owner or operator must determine compliance with the applicable opacity standards as specified in paragraphs (a)(1) through (3) of this section.

- (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).
  - (i) The duration of the Method 9 of appendix A–4 of this part performance test shall be 1 hour (ten 6-minute averages).
  - (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.
- (2) To determine opacity for fugitive coal dust emissions sources, the additional requirements specified in paragraphs (a)(2)(i) through (iii) must be used.
  - (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.
  - (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.

- (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.
- (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 (iii) of this section are met.
- (i) No more than three emissions points may be read concurrently.
  - (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.
  - (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.
6. The facility is subject to the requirements of 40 CFR 60, Subpart Da. Pertinent sections applying to these operations include, but are not limited to:

§60.42a(a)

On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility for which construction, reconstruction, or modification commenced before or on February 28, 2005, any gases that contain PM in excess of:

- (1) 13 ng/J (0.03 lb/million BTU) heat input derived from the combustion of solid, liquid, or gaseous fuel;
- (2) 1 percent of the potential combustion concentration (99 percent reduction) when combusting solid fuel;

§60.42a(b)

On and after the date the initial PM performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of

not more than 27 percent opacity. Owners and operators of an affected facility that elect to install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring PM emissions according to the requirements of this subpart are exempt from the opacity standard specified in this paragraph b.

**§60.43a(a)**

On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility which combusts solid fuel or solid-derived fuel and for which construction, reconstruction, or modification commenced before or on February 28, 2005, except as provided under paragraphs (c), (d), (f) or (h) of this section, any gases that contain SO<sub>2</sub> in excess of:

- (1) 520 ng/J (1.20 lb/million Btu) heat input and 10 percent of the potential combustion concentration (90 percent reduction), or
- (2) 30 percent of the potential combustion concentration (70 percent reduction), when emissions are less than 260 ng/J (0.60 lb/million Btu) heat input.

7. The facility is subject to the requirements of 40 CFR 60, Subpart OOO. Pertinent sections applying to these operations include, but are not limited to:

**§60.672(a)**

Affected facilities must meet the stack emission limits and compliance requirements in Table 2 of Subpart OOO 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 as required under §60.8. The requirements in Table 2 of Subpart OOO apply for affected facilities with capture systems used to capture and transport particulate matter to a control device.

**§60.672(b)**

Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of Subpart OOO 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 as required under §60.11. The requirements in Table 3 of Subpart OOO apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.

§60.672(d)

Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

§60.672(e)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in 40 CFR §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:

- (1) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed 7 percent opacity; and
- (2) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart OOO.

§60.672(f)

Any baghouse that controls emissions from only an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) in Table 2 of Subpart OOO but must meet the applicable stack opacity limit and compliance requirements in Table 2 of Subpart OOO. This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions.

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

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

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

9. Compliance with the particulate matter emission limitations under Specific Requirement A.1 and 40 CFR 60.42Da shall be demonstrated in accordance with all applicable requirements under 40 CFR 60 and 45CSR2.

10. The permittee shall meet the following compliance requirements:

- a. Compliance with the sulfur dioxide emission limitation (i.e.,  $\text{lb}_m/\text{MMBtu}$ ,  $\text{lb}_m/\text{hr}$ , and  $\text{ppm}_v$ ) and sulfur dioxide reduction requirements under Specific Requirement A.1 and A.9 of this permit and as required by 40 CFR 60.43Da shall be demonstrated in accordance with all applicable

requirements under 40 CFR 60 provided, however, that compliance with the maximum emission limitation shall be demonstrated for all three (3) hour periods listed under Specific Requirement A.1 and SO<sub>2</sub> reduction requirements under Specific Requirement A.9 shall be demonstrated for all fixed twenty-four hour periods. In the event that the permittee obtains coal or coal refuse supplies which can be burned with a continuous SO<sub>2</sub> emission rate no greater than 0.41 lb/mmBtu, the permittee may request that the Director of the Division of Air Quality, Department of Environmental Protection approve an SO<sub>2</sub> reduction requirement less than that required under Specific Requirement A.9. The approval of such a request would be contingent upon an acceptable demonstration by the permittee that the lower SO<sub>2</sub> reduction efficiency provides control to a level which represents BACT.

- b. Compliance with the sulfur dioxide emission limitations under A.1(b) shall be determined using an SO<sub>2</sub> Continuous Emission Monitoring System (CEMS) installed, calibrated, maintained, and operated according to the provisions of 40 CFR 60.
11. The permittee shall install, calibrate, maintain and operate a continuous opacity monitoring system in accordance with 40 CFR 60.49Da and 40 CFR 60.13.
12. Visible emissions shall not exceed twenty percent (20%) opacity from the coal refuse receiving hoppers, coal refuse crushers, coal refuse feeders, coal refuse conveyors, coal refuse screen, coal refuse dryer, coal refuse storage bins, all associated coal refuse transfer points, and/or particulate matter capture and control devices associated with this equipment.
13. All fugitive particulate matter control systems shall be operated and maintained in such a manner as to minimize the emission of fugitive particulate matter.
14. In regard to nitrogen oxides, the Company shall install, calibrate, maintain and operate a continuous nitrogen oxide monitoring system complying with performance specifications as set forth under 40 CFR Appendix B Performance Specification 2 - Specifications and Test Procedures for SO<sub>2</sub> and NO<sub>x</sub> Continuous Emission Monitoring Systems in Stationary Sources. Compliance with emission limitations for nitrogen oxides (i.e., lb<sub>m</sub>/MMBtu, lb<sub>m</sub>/hr and ppm<sub>v</sub>) under Specific Requirement A.1 shall be demonstrated in accordance with all applicable requirements under 40 CFR 60. Contrary to the aforementioned provisions, fuels containing more than 25% by weight of coal refuse shall not be exempted from NO<sub>x</sub> monitoring requirements and in the absence of any emission limitation set forth under 40 CFR 60 the emission limitations set forth under Specific Requirement A.1 shall apply. Compliance with provisions under Specific Requirement A.1 shall be based on a 30 day rolling average.
15. Compliance with the emission limitations for volatile organic compounds under Specific Requirement A.1 of this permit shall be demonstrated in accordance with 40 CFR 60 Appendix A, Method 25A.

16. Compliance with the emission limitations for carbon monoxide under Specific Requirement A.1 of this permit shall be demonstrated in accordance with 40 CFR 60 Appendix A, Method 25A.
17. Compliance with the emission limitations for lead under Specific Requirement A.1 of this permit shall be demonstrated in accordance with 40 CFR 60 Appendix A, Method 12.
18. Compliance with the emission limitations for mercury under Specific Requirement A.1 of this permit shall be demonstrated in accordance with 40 CFR 61 Appendix B, Method 101A.
19. Compliance with the emission limitations for fluorides under Specific Requirement A.1 of this permit shall be demonstrated in accordance with 40 CFR 60 Appendix A, Method 13.
20. Compliance with the emission limitations for beryllium under Specific Requirement A.1 of this permit shall be demonstrated in accordance with 40 CFR 61 Appendix B, Method 104.
21. For the purposes of determining compliance with maximum throughput limits set forth in Specific Requirement A.10 the applicant shall maintain certified daily and monthly records of the amount of fuel through the Ro-Pro Roll Crusher 18S.
22. The permittee shall submit a report to the Secretary within 60 days after the end of each year during which records must be generated as required under §45-14-19.8(c) setting out the unit's annual emissions during the calendar year that preceded submission of the report.

## **C. GENERAL REQUIREMENTS**

1. In accordance with 45CSR30 - "Operating Permit Program", the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first filing a Certified Emissions Statement (CES) and paying the appropriate fee. Such Certified Emissions Statement (CES) shall be filed and the appropriate fee paid annually. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
2. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

3. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R14-0005 through R14-0005F and any amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.
4. At such reasonable time(s) as the Secretary may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in the permit application and/or applicable regulations. Test(s) shall be conducted in such a manner as the Secretary may specify or approve and shall be filed in a manner acceptable to the Secretary. The Secretary, or his/her duly authorized representative, may at his option witness or conduct such test. Should the Secretary exercise his option to conduct such test(s), the permittee shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. For any tests to be conducted by the permittee, a test protocol shall be submitted to the DAQ by the permittee at least thirty (30) days prior to the test and shall be approved by the Secretary. The Secretary shall be notified at least fifteen (15) days in advance of the actual dates and times during which the test will be conducted.
5. In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.
6. The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.
7. The permittee shall notify the Secretary, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized under this permit.
8. The permittee shall notify the Secretary, in writing, at least fifteen (15) calendar days prior to actual startup of the operations authorized under this permit.
9. This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13.
10. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7.

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

ISSUED BY: \_\_\_\_\_

WILLIAM F. DURHAM, DIRECTOR  
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF AIR QUALITY

DATE SIGNED: \_\_\_\_\_

**DRAFT**

# INTERNAL PERMITTING DOCUMENT TRACKING MANIFEST

Company Name American Bituminous Power Partners, L.P.

Permitting Action Number R14-0005P Total Days 80 DAQ Days 51

**Permitting Action:**

- |   |                                    |   |
|---|------------------------------------|---|
| <input type="radio"/> Permit Determination  | <input type="radio"/> Temporary    | <input checked="" type="radio"/> Modification |
| <input type="radio"/> General Permit        | <input type="radio"/> Relocation   | <input type="radio"/> PSD (Rule 14)           |
| <input type="radio"/> Administrative Update | <input type="radio"/> Construction | <input type="radio"/> NNSR (Rule 19)          |

**Documents Attached:**

- |  |   |
|--|---|
| <input checked="" type="radio"/> Engineering Evaluation/Memo   | <input checked="" type="radio"/> Completed Database Sheet |
| <input checked="" type="radio"/> Draft Permit                  | <input type="radio"/> Withdrawal                          |
| <input checked="" type="radio"/> Notice                        | <input type="radio"/> Letter                              |
| <input type="radio"/> Denial                                   | <input type="radio"/> Other (specify) _____               |
| <input type="radio"/> Final Permit/General Permit Registration | _____   |

Date	From	To	Action Requested
8/05/16	Joe Kessler	Bev McKeone	NOTICE APPROVAL
8/15	Bev	Joe	See Comments - Addressed to Notice

NOTE: Retain a copy of this manifest for your records when transmitting your document(s).

**Kessler, Joseph R**

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**From:** Patrick E. Ward <PEWard@potesta.com>  
**Sent:** Wednesday, August 10, 2016 11:43 AM  
**To:** Kessler, Joseph R  
**Cc:** Steve Friend  
**Subject:** RE: R14-0005F Ambit

Yes, the facility is having to increase limestone slightly to reduce SO<sub>2</sub> emissions lower than the current permit limitations in order to meet the new limits imposed by this permit revision, there will be a slight increase in the heat input because the SO<sub>2</sub> capture process requires heat input in order to drive the limestone calcination process. That increase in heat input is very slight, less than 1% by our estimates in order to meet the lower SO<sub>2</sub> emissions rate. This increase is accounted for in our modeling as well.

Regards,  
Patrick Ward  
Potesta & Associates, Inc.  
7012 MacCorkle Avenue, S.E.  
Charleston, West Virginia 25304  
Ph: (304) 342-1400  
Direct: (304) 414-4751  
Fax: (304) 343-9031

*Entire Document*  
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I.D. No. 049-00026 Reg. R14-0005F  
Company ABAP  
Facility Game Town Region \_\_\_\_\_  
Initials 

This electronic communication and its attachments contain confidential information. The recommendations and/or design data included herein are provided as a matter of convenience and should not be used for final design or ultimate decision making. Rely only on the final hardcopy materials bearing the consultant's original signature and seal. If you have received this information in error, please notify the sender immediately.

**From:** Kessler, Joseph R [mailto:Joseph.R.Kessler@wv.gov]  
**Sent:** Thursday, August 04, 2016 3:07 PM  
**To:** Patrick E. Ward <PEWard@potesta.com>  
**Subject:** RE: R14-0005F Ambit

Thanks, that is good information. One more question, do they anticipate needing to increase heat input on a per –MW basis to account for the (I assume this is where they might be getting some of the SO<sub>2</sub> reduction) added limestone in the gob?

Joe

**From:** Patrick E. Ward [mailto:PEWard@potesta.com]  
**Sent:** Thursday, August 04, 2016 2:52 PM  
**To:** Kessler, Joseph R <Joseph.R.Kessler@wv.gov>  
**Cc:** Steve Friend <sfriend@ambitwv.com>; 'Don Drennen' <ddrennen@ambitwv.com>  
**Subject:** RE: R14-0005F Ambit

The future projections for annual operating hours and heat input were taken from AmBit's long term financial model, that includes projections for operating hours and plant generation. The model includes assumptions for maintenance outage periods and plant operating history to accurately reflect operating time projections. Heat input determinations are then made from that same model based on generation levels and unit heat rate estimates that are also based on operating history and the design characteristics of the facility. Projected actual emissions were then calculated from these operating hour and heat input projections from that long term model.

The AmBit Grant Town Plant is a base load facility not subject to demand response operation from the regional transmission operator (PJM) nor subject to dispatch based on operational or fuel costs. As such, aside from some very short time frame curtailment clauses within the power purchase agreement with Mon Power, AmBit operates at base load and is only out of service or at reduced capacity for forced outage or planned maintenance outages. The model contemplates these forced outage periods and takes in to account any planned maintenance periods along with the production curtailment requirements of the contract in order to determine annual operating hours and heat input. This model is specific to the AmBit facility and does not follow any format provided by PJM or Mon Power.

Let me know if you have any further questions on this.

Regards,  
Patrick Ward  
Potesta & Associates, Inc.  
7012 MacCorkle Avenue, S.E.  
Charleston, West Virginia 25304  
Ph: (304) 342-1400  
Direct: (304) 414-4751  
Fax: (304) 343-9031

This electronic communication and its attachments contain confidential information. The recommendations and/or design data included herein are provided as a matter of convenience and should not be used for final design or ultimate decision making. Rely only on the final hardcopy materials bearing the consultant's original signature and seal. If you have received this information in error, please notify the sender immediately.

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**From:** Kessler, Joseph R [<mailto:Joseph.R.Kessler@wv.gov>]  
**Sent:** Tuesday, August 02, 2016 2:45 PM  
**To:** Patrick E. Ward <[PEWard@potesta.com](mailto:PEWard@potesta.com)>  
**Subject:** R14-0005F Ambit

Patrick, how were the projected actual emissions calculated for the actual—to-projected actual test on Grant Town. Were the expected future annual operating hours/heat input based on an industry demand model, PJM projections, etc.?

Thanks,

Joe Kessler, PE  
Engineer  
West Virginia Division of Air Quality  
601-57th St., SE  
Charleston, WV 25304  
Phone: (304) 926-0499 x1219  
Fax: (304) 926-0478  
[Joseph.r.kessler@wv.gov](mailto:Joseph.r.kessler@wv.gov)

**Kessler, Joseph R**

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**From:** Kessler, Joseph R  
**Sent:** Wednesday, June 15, 2016 10:38 AM  
**To:** sfriend@ambitwv.com; ddrennen@ambitwv.com  
**Cc:** Patrick Ward (PEWard@POTESTA.com); Kessler, Joseph R  
**Subject:** R14-0005F Permit Application Status

**RE: Application Status: Complete  
American Bituminous Power Partners, L.P.  
Grant Town Power Plant  
Permit Application: R14-0005F  
Plant ID No.: 049-00026**

Mr. Friend,

Your application for a permit modification was received by the Division of Air Quality (DAQ) on May 17, 2016 and assigned to the writer for review. Upon an initial review, the application has been deemed complete as of the date of this e-mail. The ninety (90) day statutory time frame began on that day.

This determination of completeness shall not relieve the permit applicant of the requirement to subsequently submit, in a timely manner, any additional or corrected information deemed necessary for a final permit determination.

Should you have any questions, please contact me at (304) 926-0499 ext. 1219 or reply to this email.

Thank You,

Joe Kessler, PE  
Engineer  
West Virginia Division of Air Quality  
601-57th St., SE  
Charleston, WV 25304  
Phone: (304) 926-0499 x1219  
Fax: (304) 926-0478  
[Joseph.r.kessler@wv.gov](mailto:Joseph.r.kessler@wv.gov)

*Entire Document*  
**NON-CONFIDENTIAL**



By: Pleasant Valley Energy Company, its General Partner

By: 

Name: Richard Halloran

Title: Manager

NOTARY ACKNOWLEDGEMENT

Subscribed and sworn before me on this the 1<sup>st</sup> day of OCTOBER 2015

My commission expires: 3-27-19



[SEAL]

[Signature of Notary Public]  
**CHRISTOPHER J. AMODEO**  
Notary Public, State of New York  
No. 01AM5041239  
Qualified in Nassau County  
Commission Expires March 27, 2019

## **Kessler, Joseph R**

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**From:** Ward, Beth A  
**Sent:** Wednesday, June 15, 2016 9:19 AM  
**To:** Kessler, Joseph R  
**Subject:** FW: PILGRIM'S PRIDE CORPORATION OF WV INC AND AMERICAN BITUMINOUS POWER PARTNERS LP PERMIT APPLICATION FEE

The receipt information for American Bituminous Power Partners LP was sent to you in an email from me on May 18<sup>th</sup>. Below is the email I sent and receipt information.

Thank You!

**From:** Ward, Beth A  
**Sent:** Wednesday, May 18, 2016 3:25 PM  
**To:** Kessler, Joseph R <Joseph.R.Kessler@wv.gov>  
**Subject:** PILGRIM'S PRIDE CORPORATION OF WV INC AND AMERICAN BITUMINOUS POWER PARTNERS LP PERMIT APPLICATION FEE

This is the receipt for payment received from:

PILGRIM'S PRIDE CORPORATION OF WEST VIRGINIA INC, MOOREFIELD, CHECK NUMBER 13473, CHECK DATE 05/12/2016, \$300.00  
R13-1863E ID# 031-00010

AMERICAN BITUMINOUS POWER PARTNERS LP, GRANT TOWN PLANT, CHECK NUMBER 90712, CHECK DATE 05/12/2016, \$1,000.00  
R14-0005F ID# 049-00026

OASIS Deposit CR 1600126739

Thank You!

*Beth Ward*

**WV DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BTO FISCAL  
601 57<sup>TH</sup> STREET SE  
CHARLESTON, WV 25304  
(304) 926-0499 EXT 1846  
[beth.a.ward@wv.gov](mailto:beth.a.ward@wv.gov)**

# UC Defaulted Accounts Search Results

Sorry, no records matching your criteria were found.

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FEIN:  
Business name: AMERICAN BITUMINOUS POWER PARTNERS  
Doing business  
as/Trading as:

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Please use your browsers back button to try again.

<a href="#"><u>WorkforceWV</u></a>	<a href="#"><u>Unemployment Compensation</u></a>	<a href="#"><u>Offices of the Insurance Commissioner</u></a>
------------------------------------	--	--

# UC Defaulted Accounts Search Results

Sorry, no records matching your criteria were found.

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FEIN: 330377855  
Business name:  
Doing business as/Trading as:

---

Please use your browsers back button to try again.

<a href="#">WorkforceWV</a>	<a href="#">Unemployment Compensation</a>	<a href="#">Offices of the Insurance Commissioner</a>
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**AIR QUALITY PERMIT  
NOTICE**

**Notice of Application**  
Notice is given that American Bituminous Power Partners, L.P. has applied to the West Virginia Department of Environmental Protection, Division of Air Quality (DAQ), for a Modification to reduce sulfur dioxide (SO2) emissions for the Grant Town Power Plant, an electric generating unit, located on ABPP Drive, near Grant Town, Marion County, West Virginia. The latitude and longitude coordinates of the facility are: 39.562026 and -80.162696.

The applicant proposes to decrease SO2 emissions by 2,018.13 tons per year down to a potential to emit of 1,994.62 tons per year. The proposed potential to emit is below the applicability threshold and will remove applicability of the Data Requirements Rule (DRR) for the 2010 1-Hour Sulfur Dioxide (SO2) Primary National Ambient Air Quality Standard (NAAQS) as allowed by the rule. There are no other changes in emissions proposed.

Startup of operation as proposed in this application is planned to begin on or about the 13th day of January, 2017. Written comments will be received by the West Virginia Department of Environmental Protection, DAQ, 601 57th Street, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

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

Dated this the (PLEASE INSERT DATE) day of May, 2016.

By: American Bituminous Power Partners, L.P.  
Steve Friend  
Plant Manager  
288 ABPP Drive  
Grant Town, West Virginia 26574  
Times: May 20, 2016

**AFFIDAVIT OF PUBLICATION**

State of West Virginia  
County of Marion

I, Beverly Miller, being first duly sworn upon my oath, do dispose and say that I am of the TIMES WEST VIRGINIAN, a corporation, publisher of the newspaper entitled the TIMES WEST VIRGINIAN an Independent newspaper:

that I have been duly authorized by the board of directors of such corporation to execute this affidavit of publication; that such newspaper has been published for more than one year prior to publication of the annexed notice described below, that such newspaper is regularly published daily except Saturday and Sunday, for at least fifty weeks during the calendar year, in the Municipality of Fairmont, Marion County, West Virginia; that such newspaper is a newspaper of "general circulation," as that term is defined in article three, chapter fifty-nine of the Code of West Virginia, 1931, as amended, within the publication area or areas of the aforementioned municipality and Marion County; that such newspaper averages in length four or more pages, exclusive of any cover, per issue; that such newspaper is circulated to the general public at a definite price or consideration; that such newspaper is a newspaper to which the general public resorts for passing events of a political, religious, commercial or social nature, and for current happenings, announcements, miscellaneous reading matter, advertisements and other notices.

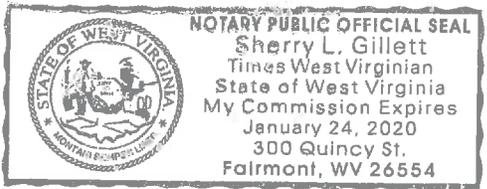
that the annexed notice of Permit was duly published in said newspaper once day for 1 successive day (Class I), commencing with the issue of the 20 day of May, 2016, and ending with the issue of the 20 day of May, 2016, and was posted at the front door of the Marion County Courthouse on the 20 day of May, 2016; that said annexed notice was published on the following dates: May 20, 2016

and the cost of publishing said annexed notice as aforesaid was \$ 35.92

Taken, subscribed and sworn to before me in said county this 26 day of May, 2016.

My commission expires Jan 24, 2020

*Sherry L. Gillett*  
Notary Public of Marion County, West Virginia



**Adkins, Sandra K**

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**From:** Adkins, Sandra K  
**Sent:** Wednesday, May 18, 2016 9:46 AM  
**To:** 'sfriend@ambitwv.com'; 'ddrennen@ambitwv.com'; 'peward@potesta.com'  
**Cc:** McKeone, Beverly D; Kessler, Joseph R  
**Subject:** WV DAQ Permit Application Status for American Bituminous Power Partners, L.P.; Grant Town Plant

**RE: Application Status  
American Bituminous Power Partners, L.P.  
Grant Town Plant  
Plant ID No. 049-00026  
Application No. R14-0005F**

*Entire Document*  
**NON-CONFIDENTIAL**

Mr. Friend,

Your application for a modification permit for the Grant Town Power Plant was received by this Division on May 17, 2016, and was assigned to Joe Kessler. The following item was not included in the initial application submittal:

**Original affidavit for Class I legal advertisement not submitted.**

*This item is necessary for the assigned permit writer to continue the 30-day completeness review.*

Within 30 days, you should receive a letter from Joe stating the status of the permit application and, if complete, given an estimated time frame for the agency's final action on the permit.

Any determination of completeness shall not relieve the permit applicant of the requirement to subsequently submit, in a timely manner, any additional or corrected information deemed necessary for a final permit decision.

Should you have any questions, please contact the assigned engineer, Joe Kessler, at 304-926-0499, extension 1219.