

West Virginia Department of Environmental Protection

Harold D. Ward  
Cabinet Secretary

# Title V Operating Permit Revision

## For Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

**Permit Action Number:** MM02, MM03, MM04, MM05      **SIC:** 4911  
**Name of Permittee:** Morgantown Energy Associates  
**Facility Name/Location:** Morgantown, WV  
**County:** Monongalia  
**Permittee Mailing Address:** 555 Beechurst Avenue, Morgantown, West Virginia 26505

**Description of Permit Revision:** Combines four minor modification applications (MM02 through MM05) associated with revisions to R14-0007 (versions F through I) with the end result of 1) removing the solid fuel and ash handling systems associated with Ahlstrom Pyroflow CFB boilers and operating the CFB boilers combusting solely natural gas through the “start-up” burners. 2) Retrofitting and operating the two Zurn Auxiliary Boilers to fire natural gas and ultra-low sulfur diesel (ULSD) fuel. 3) Installing and operating two new Victory Energy Boilers firing natural gas and ULSD fuel. The facility has shut down the power generating operations and will only produce steam to supply West Virginia University.

### Title V Permit Information:

**Permit Number:** R30-06100027-2019  
**Issued Date:** July 16, 2019  
**Effective Date:** July 30, 2019  
**Expiration Date:** July 16, 2024

**Directions To Facility:** From Charleston take Interstate 79 North to Exit 152. Bear right onto Fairmont Rd (US-19) approximately 1.9 miles. Turn right onto Holland Ave. (US-19) approximately 1.4 miles to University Avenue. Turn left on Beechurst Ave. Facility is located on the left approximately 0.8 miles.

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THIS PERMIT REVISION IS ISSUED IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL ACT (W.VA. CODE §§ 22-5-1 ET SEQ.) AND 45CSR30 - "REQUIREMENTS FOR OPERATING PERMITS." THE PERMITTEE IDENTIFIED AT THE FACILITY ABOVE IS AUTHORIZED TO OPERATE THE STATIONARY SOURCES OF AIR POLLUTANTS IDENTIFIED HEREIN IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THIS PERMIT.



Laura M. Crowder

Digitally signed by: Laura M. Crowder  
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Department of Environmental Protection OU = Division  
of Air Quality  
Date: 2023.08.01 16:15:22 -0400

August 1, 2023

Date Issued

Laura M. Crowder  
Director, Division of Air Quality

Permit Number: **R30-06100027-2019**  
Permittee: **Morgantown Energy Associates**  
Permittee Mailing Address: **555 Beechurst Avenue, Morgantown, West Virginia 26505**

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

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Facility Location:	Morgantown, Monongalia County, West Virginia
Facility Mailing Address:	555 Beechurst Avenue, Morgantown, West Virginia 26505
Telephone Number:	304-284-2500
Type of Business Entity:	Partnership
Facility Description:	Cogeneration (Steam and Electric) Service
SIC Codes:	Primary 4911; Secondary N/A; Tertiary N/A
UTM Coordinates:	589.20 km Easting • 4388.10 km Northing • Zone 17

Permit Writer: Frederick Tipane

*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.*

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

### 1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device <sup>1</sup>
<b>Fuel Handling</b>					
S001A	Vents 1 & 2	Elevating Conveyor 1	1989	500 TPH	ES-1, BH 1 & 2
S001B	Vents 1 & 2	TP001B—Elevating Conveyor 1 to Reversible Feed Conveyor 1	1989	500 TPH	ES-1, BH 1 & 2
S001C	Vents 1 & 2	Reversible Feed Conveyor 1	1989	500 TPH	ES-1, BH 1 & 2
S001D	Vent 1	TP001D—Reversible Feed Conveyor 1 to Coal Silo 1	1989	500 TPH	ES-1, BH 1
S001E	Vent 1	Coal Silo 1	1989	2,100 Tons	ES-1, BH 1
S001F	Vents 1 & 2	TP001F—Elevating Conveyor 1 to Emergency Bypass Conveyor	2001	120 TPH	ES-1, BH 1 & 2
S002A	Vent 2	TP002A—Reversible Feed Conveyor 1 to Gob Storage Silo 1	1989	500 TPH	ES-1, BH 2
S002B	Vent 2	Gob Storage Silo 1	2001	2,100 Tons	ES-1, BH 2
S003A	Vent 3	TP003A—Coal Silo 1 to Weigh Belt Conveyor 1	1989	60 TPH	ES-2, BH 3
S003B	Vent 3	TP003B—Gob Storage Silo 1 to Weigh Belt Conveyor 2	1989	60 TPH	ES-2, BH 3
S003C	Vent 3	Weigh Belt Conveyor 1	1989	60 TPH	ES-2, BH 3
S003D	Vent 3	Weigh Belt Conveyor 2	2001	60 TPH	ES-2, BH 3
S003E	Vent 3	TP003E—Weigh Belt Conveyor 1 & 2 to Grinding Mill	1989	60 TPH	ES-2, BH 3
S003F	Vent 3	TP003F—Weigh Belt Conveyor 1 & 2 to Hammer Mill	1989	60 TPH	ES-2, BH 3
S003G	Vent 3	TP003G—Emergency Mill Feed System Hopper 1 to En-mass Elevating Conveyor 1	1989	60 TPH	ES-2, BH 3
S003H	Vent 3	En-mass Elevating Conveyor 1	1989	60 TPH	ES-2, BH 3
S003I	Vent 3	TP003I—En-mass Elevating Conveyor 1 to Mill Inlet Chute System	1989	60 TPH	ES-2, BH 3
S003J	Vent 3	Grinding Mill 1	1989	60 & 90 TPH	ES-2, BH 3
S003K	Vent 3	Hammer Mill 1	1989	60 TPH	ES-2, BH 3
S004A	Vent 4	TP004A—Grinding Mill 1 to Mill Collecting Conveyor 1	1989	60 & 90 TPH	ES-3, BH 4
S004B	Vent 4	TP004B—Hammer Mill 1 to Mill Collecting Conveyor 1	1989	60 TPH	ES-3, BH 4

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device <sup>1</sup>
S004C	Vent 4	TP004C—Baghouse 4 Dust Discharge to Mill Collecting Conveyor 1	1989	5 TPH (est.)	ES-3, BH-4
S004D	Vent 4	Mill Collecting Conveyor 1	2001	120 TPH	ES-3, BH-4
S004E	Vent 4	TP004E—Mill Collecting Conveyor 1 to Elevating Conveyor 2	1989	120 TPH	ES-3, BH-4
S004F	Vent 4	TP004F—Baghouse 3 Dust Discharge to Mill Collecting Conveyor 1	1989	12 TPH	ES-3, BH-4
S004G	Vent 4	Elevating Conveyor 2 (Bottom Half)	2001	120 TPH	ES-3, BH-4
S005A	Vent 5	Elevating Conveyor 2 (Top Half)	1989	120 TPH	ES-4, BH-5
S005B	Vent 5	TP005B—Elevating Conveyor 2 to Fuel Bin 1	1989	120 TPH	ES-4, BH-5
S005C	Vent 5	TP005C—Elevating Conveyor 2 to Fuel Bin 2	1989	120 TPH	ES-4, BH-5
S005D	Vent 5	Fuel Bin 1	1989	375 Tons	ES-4, BH-5
S005E	Vent 5	Fuel Bin 2	1989	375 Tons	ES-4, BH-5
S005F	Vent 5	Emergency Bypass Conveyor	2001	120 TPH	ES-4, BH-5
<b>Limestone Handling</b>					
S006A	Vent 6	TP006A—Transfer from Truck to Limestone Unloading Hopper 1	1989	37.5 TPH	BE-2, BH-6
S006B	Vent 6	TP006B—Transfer from Truck to Limestone Unloading Hopper 2	1989	37.5 TPH	BE-2, BH-6
S006C	Vent 6	Limestone Unloading Hopper 1	1989	75 TPH	BE-2, BH-6
S006D	Vent 6	Limestone Unloading Hopper 2	1989	75 TPH	BE-2, BH-6
S007A	Vent 7 & 8	TP007A—Transfer from Limestone Unloading Hopper 1 to Pneumatic Conveying System 1	1989	75 TPH	PCS-1
S007B	Vent 7 & 8	TP007B—Transfer from Limestone Unloading Hopper 2 to Pneumatic Conveying System 1	1989	75 TPH	PCS-1
S007C	Vent 7 & 8	TP007C—Transfer from Truck to Pneumatic Conveying System 1	1989	75 TPH	PCS-1
S007D	Vent 7	TP007D—Transfer from Pneumatic Conveying System 1 to Limestone Silo 1	1989	75 TPH	ES-5, BVF-1
S007E	Vent 7	Limestone Silo 1	1989	1,160 Tons	ES-5, BVF-1
S008A	Vent 8	TP008A—Transfer from Limestone Silo 1 to Pneumatic Conveying System 1	1989	75 TPH	PCS-1
S008B	Vent 8	TP008B—Transfer from Pneumatic Conveying System 1 to Limestone Bin 1	1989	75 TPH	ES-6, BVF-2
S008C	Vent 8	Limestone Bin 1	1989	250 Tons	ES-6, BVF-2

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device <sup>1</sup>
S008D	Vent 8	<del>TP008D—Limestone Bin 1 to Gravimetric Feeder/Conveyor A</del>	1989	10 TPH	ES-6, BVF-2
S008E	Vent 8	<del>Gravimetric Feeder/Conveyor A</del>	1989	10 TPH	ES-6, BVF-2
S008F	Vent 8	<del>TP008F—Gravimetric Feeder/Conveyor A to Rotary Valve A</del>	1989	10 TPH	ES-6, BVF-2
S008G	Vent 8	<del>TP008G—Limestone Bin 1 to Gravimetric Feeder/Conveyor B</del>	1989	10 TPH	ES-6, BVF-2
S008H	Vent 8	<del>Gravimetric Feeder/Conveyor B</del>	1989	10 TPH	ES-6, BVF-2
S008I	Vent 8	<del>TP008I—Gravimetric Feeder/Conveyor B to Rotary Valve B</del>	1989	10 TPH	ES-6, BVF-2
<b>Boilers &amp; Associated Equipment</b>					
S009A	STACK1	<del>TP009A—Limestone Feeder Rotary Valve A to Pneumatic Conveying System 2</del>	1989	10 TPH	PCS, BH 7 & 8
S009B	STACK1	<del>TP009B—Limestone Feeder Rotary Valve B to Pneumatic Conveying System 2</del>	1989	10 TPH	PCS, BH 7 & 8
S009C	STACK1	<del>TP009C—Pneumatic Conveying System 2 to CFB Boiler 1</del>	1989	10 TPH	PCS, BH 7 & 8
S009D	STACK1	<del>TP009D—Pneumatic Conveying System 2 to CFB Boiler 2</del>	1989	10 TPH	PCS, BH 7 & 8
S009E	STACK1	<del>TP009E—Fuel Bin 1 to Enclosed Conveying System 7</del>	1989	46 TPH	ES, BH 7 & 8
S009F	STACK1	<del>TP009F—Fuel Bin 2 to Enclosed Conveying System 7</del>	1989	46 TPH	ES, BH 7 & 8
S009G	STACK1	<del>Enclosed Conveying System 7 to CFB Boiler 1</del>	1989	46 TPH	ES, BH 7 & 8
S009H	STACK1	<del>Enclosed Conveying System 7 to CFB Boiler 2</del>	1989	46 TPH	ES, BH 7 & 8
S009J	STACK1	<a href="#">Primary Boiler 1</a> Ahlstrom Pyroflow CFB Boiler/Cyclone #1	1989, SNCR 2016	375 (138.6) mmBtu/hr <sup>2</sup>	Limestone Injection, BH 8, SNCR
S009K	STACK1	<a href="#">Primary Boiler 2</a> Ahlstrom Pyroflow CFB Boiler/Cyclone #2	1989, SNCR 2016	375 (138.6) mmBtu/hr <sup>2</sup>	Limestone Injection, BH 7, SNCR
S009L	STACK1	Zurn Auxiliary Boiler #1 <a href="#">Dual Fuel Capable: NG (primary) with ultra-low sulfur diesel (ULSD) (limited use)</a>	1989/ <a href="#">2020*</a>	<del>160 +32</del> /146.5 <a href="#">NG/ULSD</a> mmBtu/hr	LNB
S009M	STACK1	Zurn Auxiliary Boiler #2 <a href="#">Dual Fuel Capable: NG (primary) with ULSD (limited use)</a>	1989/ <a href="#">2020*</a>	<del>160 +32</del> /146.5 <a href="#">NG/ULSD</a> mmBtu/hr	LNB

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device <sup>1</sup>
<a href="#">S009N</a>	<a href="#">STACK 1</a>	<a href="#">Boiler No. 1 Mfg. Victory Energy</a> <a href="#">Dual Fuel Capable: NG (primary) with ULSD (limited use)</a>	<a href="#">2020</a>	<a href="#">100/95.79 NG/ULSD MMBtu/hr</a>	<a href="#">LNB/FGR</a>
<a href="#">S009O</a>	<a href="#">STACK 1</a>	<a href="#">Boiler No. 2 Mfg. Victory Energy</a> <a href="#">Dual Fuel Capable: NG (primary) with ULSD (limited use)</a>	<a href="#">2020</a>	<a href="#">100/95.79 NG/ULSD MMBtu/hr</a>	<a href="#">LNB/FGR</a>

**Ash Handling**

<a href="#">S010A</a>	<a href="#">Vent-9</a>	<a href="#">TP010A—CFB Boiler 1 Bottom Ash Screw A to Drag Chain Conveyor 101</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010B</a>	<a href="#">Vent-9</a>	<a href="#">TP010C—CFB Boiler 1 Bottom Ash Screw B to Drag Chain Conveyor 101</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010C</a>	<a href="#">Vent-9</a>	<a href="#">TP010E—CFB Boiler 1 Bottom Ash Screw C to Drag Chain Conveyor 101</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010D</a>	<a href="#">Vent-9</a>	<a href="#">Drag Chain Conveyor 101</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010E</a>	<a href="#">Vent-9</a>	<a href="#">TP010I—CFB Boiler 2 Bottom Ash Screw A to Drag Chain Conveyor 201</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010F</a>	<a href="#">Vent-9</a>	<a href="#">TP010K—CFB Boiler 2 Bottom Ash Screw B to Drag Chain Conveyor 201</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010G</a>	<a href="#">Vent-9</a>	<a href="#">TP010M—CFB Boiler 2 Bottom Ash Screw C to Drag Chain Conveyor 201</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010H</a>	<a href="#">Vent-9</a>	<a href="#">Drag Chain Conveyor 201</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010I</a>	<a href="#">Vent-9</a>	<a href="#">TP010Q—Drag Chain Conveyor 101 to Clinker Grinder 1</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010J</a>	<a href="#">Vent-9</a>	<a href="#">TP010S—Drag Chain Conveyor 201 to Clinker Grinder 3</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010K</a>	<a href="#">Vent-9</a>	<a href="#">Clinker Grinder 1</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010L</a>	<a href="#">Vent-9</a>	<a href="#">Clinker Grinder 3</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010M</a>	<a href="#">Vent-9</a>	<a href="#">TP010Y—Clinker Grinder 1 to Bottom Ash Holding Bin 1</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010N</a>	<a href="#">Vent-9</a>	<a href="#">TP010AA—Clinker Grinder 3 to Bottom Ash Holding Bin 1</a>	<a href="#">1989</a>	<a href="#">16.5 TPH</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S010O</a>	<a href="#">Vent-9</a>	<a href="#">Bottom Ash Holding Bin</a>	<a href="#">1989</a>	<a href="#">76.5 Tons</a>	<a href="#">ES-8, BVF-3</a>
<a href="#">S011A</a>	<a href="#">Vent-10</a>	<a href="#">TP011A—Bottom Ash Holding Bin Discharge A to Vacuum Conveying System A</a>	<a href="#">1989</a>	<a href="#">50 TPH</a>	<a href="#">ES-3, VCS-A, FS-A</a>
<a href="#">S011B</a>	<a href="#">Vent-10</a>	<a href="#">TP011B—Bottom Ash Holding Bin Discharge B to Vacuum Conveying System B</a>	<a href="#">1989</a>	<a href="#">50 TPH</a>	<a href="#">ES-3, VCS-B, FS-B</a>
<a href="#">S011C</a>	<a href="#">Vent-10</a>	<a href="#">TP011C—Bottom Ash Holding Bin Discharge C to Vacuum Conveying System C</a>	<a href="#">1989</a>	<a href="#">50 TPH</a>	<a href="#">ES-3, VCS-C, FS-C</a>

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device <sup>1</sup>
S011D	Vent 10	<del>TP011D—CFB No. 1 Air Heater Hopper to Vacuum Conveying System A</del>	1989	50 TPH	<del>ES 3, VCS A, FS A</del>
S011E	Vent 10	<del>TP011E—CFB No. 2 Air Heater Hopper to Vacuum Conveying System C</del>	1989	50 TPH	<del>ES 3, VCS C, FS C</del>
S011F	Vent 10	<del>TP011F—CFB No. 1 Baghouse Row 1 Discharge to Vacuum Conveying System A</del>	1989	50 TPH	<del>ES 3, VCS A, FS A</del>
S011G	Vent 10	<del>TP011G—CFB No. 1 Baghouse Row 2 Discharge to Vacuum Conveying System B</del>	1989	50 TPH	<del>ES 3, VCS B, FS B</del>
S011H	Vent 10	<del>TP011H—CFB No. 2 Baghouse Row 1 Discharge to Vacuum Conveying System B</del>	1989	50 TPH	<del>ES 3, VCS B, FS B</del>
S011I	Vent 10	<del>TP011I—CFB No. 2 Baghouse Row 2 Discharge to Vacuum Conveying System C</del>	1989	50 TPH	<del>ES 3, VCS C, FS C</del>
S011J	Vent 10	<del>Filter/Separator A Exhaust</del>	1989	50 TPH	<del>ES 3, VCS A, FS A</del>
S011K	Vent 10	<del>Filter/Separator B Exhaust</del>	1989	50 TPH	<del>ES 3, VCS B, FS B</del>
S011L	Vent 10	<del>Filter/Separator C Exhaust</del>	1989	50 TPH	<del>ES 3, VCS C, FS C</del>
S012A	Vent 11	<del>TP012A—Filter/Separator A to Ash Silo 1</del>	1989	50 TPH	<del>ES 9, BH 9</del>
S012B	Vent 11	<del>TP012B—Filter/Separator B to Ash Silo 1</del>	1989	50 TPH	<del>ES 9, BH 9</del>
S012C	Vent 11	<del>TP012C—Filter/Separator A to Ash Silo 1</del>	1989	50 TPH	<del>ES 9, BH 9</del>
S012D	Vent 11	<del>Ash Silo 1</del>	1989	1,300 Tons	<del>ES 9, BH 9</del>
S012E	Vent 11	<del>TP012E—Ash Silo to Truck</del>	1989	300 TPH	<del>BH 9, BE 4, AC 1</del>
S012F	Vent 11	<del>TP012FE—Ash Silo to Truck</del>	1989	300 TPH	<del>BH 9, BE 4, AC 2</del>
<b>Fuel Receiving &amp; Emergency Fuel Feed Fugitives</b>					
S00F1	Fugitive Emission 1	<del>TP00F1—Transfer from Truck to Fuel Unloading Hopper/Vibratory Feeder 1</del>	1989	250 TPH	<del>BE 1, WS 1</del>
S00F2	Fugitive Emission 2	<del>Fuel Unloading Hopper 1</del>	1989	250 TPH	<del>BE 1, WS 1</del>
S00F3	Fugitive Emission 3	<del>Vibratory Feeder 1</del>	1989	250 TPH	<del>BE 1, ES 1</del>
S00F4	Fugitive Emission 4	<del>TP00F4—Transfer from Truck to Fuel Unloading Hopper/Vibratory Feeder 2</del>	1989	250 TPH	<del>BE 1, WS 2</del>
S00F5	Fugitive Emission 5	<del>Fuel Unloading Hopper 2</del>	1989	250 TPH	<del>BE 1, WS 2</del>
S00F6	Fugitive Emission 6	<del>Vibratory Feeder 2</del>	1989	250 TPH	<del>BE 1, ES 1</del>



Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device <sup>1</sup>
S00F7	<del>Fugitive Emission 7</del>	<del>TP00F7—Vibratory Feeder 2 to Transfer Conveyor 1</del>	<del>1989</del>	<del>250 TPH</del>	<del>BE-1, ES-1, WS-3</del>
S00F8	<del>Fugitive Emission 8</del>	<del>TP00F8—Vibratory Feeder 1 to Transfer Conveyor 1</del>	<del>1989</del>	<del>250 TPH</del>	<del>BE-1, ES-1, WS-4</del>
S00F9	<del>Fugitive Emission 9</del>	<del>Transfer Conveyor 1</del>	<del>1989</del>	<del>500 TPH</del>	<del>BE-1, ES-1</del>
S00F10	<del>Fugitive Emission 10</del>	<del>TP00F10—Transfer Conveyor 1 to Elevating Conveyor 1</del>	<del>1989</del>	<del>500 TPH</del>	<del>BE-1, ES-1, WS-5</del>
S00F11	<del>Fugitive Emission 11</del>	<del>TP00F11—Dribble Chute 1 to Dribble Chute Catch Bin 1</del>	<del>1989</del>	<del>N/A</del>	<del>BE-1</del>
S00F12	<del>Fugitive Emission 12</del>	<del>Dribble Chute Catch Bin 1</del>	<del>1989</del>	<del>N/A</del>	<del>BE-1</del>
S00F13	<del>Fugitive Emission 13</del>	<del>TP00F13—Dribble Chute Catch Bin 1 to Dribble Chute Conveyor 1</del>	<del>1989</del>	<del>N/A</del>	<del>BE-1</del>
S00F14	<del>Fugitive Emission 14</del>	<del>TP00F14—Dribble Chute Conveyor 1 to Transfer Conveyor 1</del>	<del>1989</del>	<del>N/A</del>	<del>BE-1</del>
S00F15	<del>Fugitive Emission 15</del>	<del>TP00F15—Front End Loader to Emergency Mill Feed System Hopper 1</del>	<del>1989</del>	<del>60 TPH</del>	<del>N/A</del>
S00F16	<del>Fugitive Emission 16</del>	<del>Emergency Mill Feed System Hopper 1</del>	<del>1989</del>	<del>60 TPH</del>	<del>N/A</del>
<b>Storage Tank Fugitives</b>					
S00F17	<a href="#">Tank Vent 01 Fugitive Emission 17</a>	A.S.T. 01 Acid Tank	1989	5,800 Gallons	N/A
S00F18	<a href="#">Tank Vent 02 Fugitive Emission 18</a>	A.S.T. 02 Caustic Tank	1989	5,800 Gallons	N/A
<del>S00F21</del>	<del>Fugitive Emission 21</del>	<del>A.S.T.—05 Turbine Oil Tank</del>	<del>1989</del>	<del>2,378 Gallons</del>	<del>N/A</del>
<del>S00F22</del>	<del>Fugitive Emission 22</del>	<del>A.S.T.—06 EHC Oil Storage Tank</del>	<del>1989</del>	<del>105 Gallons</del>	<del>N/A</del>
S00F23	<a href="#">Tank Vent 03 Fugitive Emission 23</a>	A.S.T. 07 Water Treatment Phosphate Tank	1989	1,600 Gallons	N/A
S00F24	<a href="#">Tank Vent 04 Fugitive Emission 24</a>	A.S.T. 08 Water Treatment Corrosion Inhibitor Tank	1989	400 Gallons	N/A
S00F25	<a href="#">Tank Vent 05 Fugitive Emission 25</a>	A.S.T. 09 Water Treatment Oxygen Scavenger Tank	1989	400 Gallons	N/A

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device <sup>1</sup>
<a href="#">S00F26</a>	<a href="#">Tank Vent 06</a>	<a href="#">ULSD Storage Tank No. 1</a>	<a href="#">2020</a>	<a href="#">20,000 Gallons</a>	<a href="#">N/A</a>
<a href="#">S00F27</a>	<a href="#">Tank Vent 07</a>	<a href="#">ULSD Storage Tank No. 2</a>	<a href="#">2020</a>	<a href="#">20,000 Gallons</a>	<a href="#">N/A</a>
N/A	N/A	SNCR Reagent Tank	2016	9,000	N/A

**Paved Roadway Fugitives**

S00F26	Fugitive Emission 26	Plant Roadway	1989	N/A	Paved, Water Cleaning
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<sup>1</sup> ~~AC – Ash Conditioner; BH – Baghouse; BE – Building Enclosure; BVF – Bin Vent Filter; ES – Enclosed System; FS – Filter Separator; LNB – Low NO<sub>x</sub> Burners; PCS – Pneumatic Conveying System; SNCR – Selective Non-Catalytic Reduction system; VCS – Vacuum Conveying System; WS – Water Spray. FGR – Flue Gas Recirculation~~

<sup>2</sup> 375 mmBtu/hr reflects the design capacity of each of the boilers as designed for burning solid fuel (i.e., coal/coal refuse) and natural gas (there was no physical change to the boilers). 138.6 mmBtu/hr reflects the actual maximum heat input allowed using only the “start-up” burners, burning only natural gas as permitted in R14-0007.

[\\* Year Modified](#)

## 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
R14-0007 <del>I E</del>	<a href="#">December 22, 2022</a> <del>January 2, 2020</del>

## 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.~~39~~, ~~42~~). 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

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

### **2.3. Permit Expiration and Renewal**

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

### **2.4. Permit Actions**

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

### **2.5. Reopening for Cause**

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

**[45CSR§30-6.6.a.]**

## **2.6. Administrative Permit Amendments**

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

## **2.7. Minor Permit Modifications**

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

## **2.8. Significant Permit Modification**

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

## **2.9. Emissions Trading**

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

## **2.10. Off-Permit Changes**

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

- 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§30-2.40 ~~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. ~~Reserved~~ 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.e.]~~

~~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 CFR Part 2.

[45CSR§30-5.1.f.5.]

## **2.20. Duty to Supplement and Correct Information**

2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

[45CSR§30-4.2.]

## 2.21. Permit Shield

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

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

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

[45CSR§30-5.6.c.]

## 2.22. Credible Evidence

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

## 2.23. Severability

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

## 2.24. Property Rights

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

## 2.25. Acid Deposition Control

2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.

- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.

- b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
- c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

**[45CSR§30-5.1.d.]**

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

**[45CSR§30-5.1.a.2.]**

### 3.0 Facility-Wide Requirements

#### 3.1 Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1.  
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.  
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 CFR §61.145, 40 CFR §61.148, and 40 CFR §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 CFR §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 CFR §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 CFR 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 CFR §§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 CFR §82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR §82.161.

[40 CFR 82, Subpart F]

- 3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 CFR §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 CFR §68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR Part 70 or 71.

[40 CFR 68]

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

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

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

~~c. Ash or fuel handling systems and ash disposal areas.~~

*Compliance with this streamlined condition will ensure compliance with Permit No. R14-0007, requirement 5.1.3.*

*(In addition to the emission units that vent through the emission points identified in Section 5.0., also included are Em. Unit IDs S009A, S009B, S009C, S009D, S009E, S009F, S009G, and S009H which vent through Em. Pt. ID Stack 1.)*

[45CSR§2-5.1; ~~45CSR14, R14-0007, 5.1.3.~~]

- 3.1.10. Reserved

- 3.1.11. **CSAPR NO<sub>x</sub> Annual Trading Program.** The permittee shall comply with the standard requirements set forth in the attached Cross-State Air Pollution Rule (CSAPR) Trading Program Title V Requirements (see APPENDIX A).

[45CSR43; 40 CFR §97.406]

- 3.1.12. **CSAPR NO<sub>x</sub> Ozone Season Group 3 ~~2~~ Trading Program.** The permittee shall comply with the standard requirements set forth in the attached Cross-State Air Pollution Rule (CSAPR) Trading Program Title V Requirements (see APPENDIX A).

[~~45CSR43~~; 40 CFR §97.1006 ~~806~~]

- 3.1.13. **CSAPR SO<sub>2</sub> Group 1 Trading Program.** The permittee shall comply with the standard requirements set forth in the attached Cross-State Air Pollution Rule (CSAPR) Trading Program Title V Requirements (see APPENDIX A).

[45CSR43; 40 CFR §97.606]

- ~~3.1.14. **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 1.1 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. [45CSR14, R14-0007, 4.1.18.; 45CSR§13-5.10.]~~

### 3.2. Monitoring Requirements

3.2.1. Reserved.

### 3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 CFR 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.; 45CSR14-R14-0007, 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. [Compliance with this condition assures compliance with 40 CFR §60.49b\(o\) and 40 CFR §60.48c\(j\).](#)

[45CSR§30-5.1.c.2.B.; [40 CFR §60.49b\(o\) and §60.48c\(i\)](#)]

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

- 3.4.4. **Recordkeeping – Dust Control.** The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures applied at the facility. ~~The permittee shall also inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs. The permittee shall maintain records of all scheduled and non-scheduled maintenance and shall state any maintenance or corrective actions taken as a result of the weekly and/or monthly inspections, the times the fugitive dust control system(s) were inoperable and any corrective actions taken.~~

[45CSR§30-5.1.c.]

3.4.5. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.1, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.  
[45CSR14, R14-0007, 4.4.2.]

3.4.6. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.1, 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.

[45CSR14, R14-0007, 4.4.3.]

### 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 compliance certification and semi-annual monitoring reports to the DAQ and USEPA as required in 3.5.5 and 3.5.6 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, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by e-mail as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:



**DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

**US EPA:**

Section Chief  
U. S. Environmental Protection Agency, Region III  
Enforcement and Compliance Assurance Division  
Air, [RCRA and Toxics Branch](#) ~~Section~~ (3ED21)  
[Four Penn Center](#) ~~1650 Arch Street~~  
[1600 John F. Kennedy Boulevard](#)  
Philadelphia, PA 19103-~~2852~~ [2029](#)

**DAQ Compliance and Enforcement<sup>1</sup>:**

DEPAirQualityReports@wv.gov

<sup>1</sup>For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status reports, Initial Notifications, etc.

- 3.5.4. ~~**Fees. Certified emissions statement.**~~ The permittee shall ~~submit a certified emissions statement and~~ pay fees on an annual basis in accordance with [45CSR§30-8](#). ~~the submittal requirements of the Division of Air Quality.~~  
[45CSR§30-8.]

- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. The annual certification shall be submitted in electronic format by e-mail to the following addresses:

**DAQ:**  
DEPAirQualityReports@wv.gov

**US EPA:**  
R3\_APD\_Permits@epa.gov

[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. The semi-annual monitoring reports shall be submitted in electronic format by e-mail to the following address:

**DAQ:**  
DEPAirQualityReports@wv.gov

[45CSR§30-5.1.c.3.A.]

- 3.5.7. ~~**Reserved. 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. ~~Reserved. 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 [email](#), ~~telefax~~. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
  3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
  4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

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

[45CSR§30-5.1.c.3.B.]

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

[45CSR§30-4.3.h.1.B.]

## 3.6. **Compliance Plan**

- 3.6.1. None.

## 3.7. **Permit Shield**

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.
- 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. 40 CFR 60 Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam-Generating Units. Each of the boilers (CFB and auxiliary) has a maximum design heat input capacity greater than 100 MMBtu/hr. Therefore, in accordance with 40 CFR §60.40c(a), the boilers are not subject to Subpart Dc.~~
- ~~a. b. 40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978. None of the tanks at the facility are greater than 40,000 gallons capacity. Therefore, in accordance with applicability criteria §60.110(a), Subpart K does not apply to the facility's tanks.~~
- ~~b. c. 40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. None of the tanks at the facility are greater than 40,000 gallons capacity. Therefore, in accordance with applicability criteria §60.110a(a), Subpart Ka does not apply to the facility's tanks.~~
- ~~c. d. 40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. None of the ~~The~~ tanks at the facility are ~~either less greater~~ than 75 m<sup>3</sup> (19,812.9 gallons) capacity ~~or have a capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> (39890 gallons) storing a liquid with a maximum true vapor pressure less than 15.0 kPa.~~ Therefore, in accordance with applicability criteria §60.110b(a) ~~or §60.110b(b)~~, Subpart Kb does not apply to the facility's tanks.~~
- ~~d. e. 40 CFR 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. The facility does not utilize any combination of equipment that is used to crush or grind any nonmetallic mineral as defined in §60.671. Therefore, the facility is not a “nonmetallic mineral processing plant” and is not subject to this subpart. In accordance with §60.670(a)(1), this NSPS applies to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. The permittee's facility operates some of this equipment. Under §60.671, the NSPS defines a *nonmetallic mineral* to include limestone, but neither coal nor gob (i.e., waste or refuse coal) are included. Therefore, this Subpart does not apply to the equipment used to process coal or gob at the facility. Also under §60.671, the NSPS defines a *Nonmetallic mineral processing plant* to mean “any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants, or any other facility processing nonmetallic minerals except as provided in §60.670(b) and (c).” The key to evaluating the facility with respect to this definition is the language “crush or grind”. Even though limestone is a *nonmetallic mineral* as defined in the NSPS, it is not crushed or ground at the facility. Limestone is received already crushed and ground to the appropriate size, and is not subsequently crushed or ground at the facility. This operating scenario agrees with the process flow diagrams in the 2008 renewal application, and was confirmed by the permittee in technical correspondence (6/03/08 e-mail). Therefore, this Subpart does not apply to the processing of limestone at the facility.~~
- ~~e. f. 40 CFR 60 Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units. The CFB Boilers are solely natural gas-fired boilers and therefore are not commercial and industrial solid waste incineration (CISWI) units as defined in §60.2265. This is due to the fact that they are fired by a blend of virgin bituminous coal and coal refuse as well as natural gas for startup purposes. All of these fuels meet the definition of “traditional fuels” in 40 CFR §241.2 and hence are not considered solid wastes.~~

- ~~f. g.~~ **40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers.** After review of the permittee’s Process Flow Schematic and Equipment Table in the 2008 renewal application, it was determined that the facility does not have an *industrial process cooling tower*, which is defined in §63.401. Therefore, the facility does not meet the applicability criteria of §63.400(a), and hence this MACT does not apply to the facility.
- ~~g. h.~~ **40 CFR 63 Subpart T - National Emission Standards for Halogenated Solvent Cleaning.** The batch cold solvent cleaning machine at the facility does not utilize any solvent containing methylene chloride (CAS No. 75-09-2), perchloroethylene (CAS No. 127-18-4), trichloroethylene (CAS No. 79-01-6), 1,1,1-trichloroethane (CAS No. 71-55-6), carbon tetrachloride (CAS No. 56-23-5) or chloroform (CAS No. 67-66-3), or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent.
- ~~h. i.~~ **40 CFR 63 Subpart UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units.** The CFB boilers are designated as “gas-fired” units, therefore pursuant to 40 CFR §63.9983(b) they are not subject to the requirements of this subpart which is applicable to coal- and oil-fired electric utility steam generating units.
- ~~i. j.~~ **~~40 CFR 63 Subpart JJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources.~~** The facility is not an area source of HAP emissions; therefore, it does not meet the applicability criteria of this regulation.
- ~~i. j.~~ **40 CFR 98 Subpart D - Electricity Generation.** Facility is not subject to the Acid Rain Program and is not required to monitor and report CO<sub>2</sub> mass emissions year-round according to 40 CFR Part 75.
- ~~k. l.~~ **~~45CSR5 – To Prevent and Control Air Pollution from the Operation of Coal Preparation Plants, Coal Handling Operations and Coal Refuse Disposal Areas.~~** A “Coal Preparation Plant” is defined under 45CSR§5-2.4., and this definition includes any facility that prepares coal by crushing, and further such definition includes all coal handling operations associated with a crushing process. The permittee crushes coal at the facility using a grinding mill (Em. Unit ID S003J) and hammer mill (Em. Unit ID S003K), and there is coal handling equipment associated with the crushing. However, since the facility is subject to 45CSR2, according to 45CSR§5-2.4.b. the facility is not included in the definition of a “Coal Preparation Plant”. Therefore, 45CSR5 does not apply to the facility, and particularly its coal crushing operations and associated coal handling.
- ~~j. k.~~ **45CSR7 – To Prevent and Control Particulate Matter Air Pollution from Manufacturing Processes and Associated Operations.** Since the facility is subject to 45CSR2, 45CSR§7-10.1. provides an exemption from 45CSR7.
- ~~k. l.~~ **45CSR17 – To Prevent and Control Particulate Matter Air Pollution from Material Handling, Preparation, Storage and Other Sources of Fugitive Particulate Matter.** The facility is characterized by the handling and storage of materials that have the potential to produce fugitive particulate if not properly controlled. However, since the facility is subject to 45CSR2, it is not subject to this rule in accordance with the exemption granted in 45CSR§17-6.1.
- ~~l. m.~~ **45CSR33 – Acid Rain Provisions and Permits and 40 CFR Part 72 – Permits Regulation.** The facility does not produce electricity and therefore is not subject to Acid Rain requirements. ~~is exempt~~

~~from “Acid Rain” requirements in accordance with the exemption granted under 40 CFR §72.6(b)(5).~~ It follows, then, that the facility is also exempt from the corresponding state rule 45CSR33.

- m. [40 CFR Part 64 - Compliance Assurance Monitoring](#). There are no pollutant-specific emissions units that meet all three applicability requirements of §64.2(a).

**4.0 [Primary CFB Boilers 1 and 2](#) (S009J, S009K) ~~and Auxiliary Boilers (S009L, S009M)~~ [emission point ID(s): *STACKI*]**

**4.1. Limitations and Standards**

- 4.1.1. Visible Emissions from each stack shall not exceed ten (10) percent opacity based on a six-minute block average. ~~Compliance with this streamlined limit ensures compliance with 40 CFR §60.42Da(b) for the CFB boilers.~~  
**[45CSR§2-3.1.; ~~40 CFR §60.42Da(b); 45CSR16; 45CSR14, R14-0007, 4.1.17.m.~~]**
- 4.1.2. The addition of sulfur oxides to a combustion unit exit gas stream for the purpose of improving emissions control equipment is prohibited unless written approval for such addition is provided by the Director.  
**[45CSR§2-4.4.]**
- 4.1.3. The visible emission standards of condition 4.1.1. shall apply at all times except in periods of start-ups, shutdowns and malfunctions.  
**[45CSR§2-9.1.]**
- 4.1.4. Any fuel burning unit(s) including associated air pollution control equipment, shall at all times, including periods of start-up, shutdowns, and malfunctions, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions.  
**[45CSR§2-9.2.; 45CSR16; 40 CFR §60.11(d)]**
- 4.1.5. Emissions of nitrogen oxides (NO<sub>x</sub>), expressed as NO<sub>2</sub>, emitted to the atmosphere from each of the [Primary Boilers](#) ~~CFB boilers~~ shall not exceed the following limits to the corresponding averaging periods.
- ~~a. NO<sub>x</sub> concentration shall not exceed 293 ppmvd corrected to 3% oxygen on a 24 hr average basis.~~
- ~~a.~~ **b.** NO<sub>x</sub> emission rate shall not exceed [0.20](#) ~~0.40~~ lb/MMBtu on a 30-day rolling average.
- ~~b.~~ **e.** The permittee shall operate the SNCR in such manner as to maintain compliance with the above NO<sub>x</sub> limits ~~and in Condition 4.1.9.~~
- [45CSR14, R14-0007, 4.1.3.; [40 CFR §60.44Da\(a\)\(1\); 45CSR16](#)]**
- 4.1.6. Sulfur Dioxide (SO<sub>2</sub>) emissions emitted to the atmosphere from each of the [Primary Boilers](#) ~~CFB boilers~~ shall not exceed the following limits to the corresponding averaging periods.
- a. SO<sub>2</sub> emission rate shall not exceed [0.005](#) ~~0.40~~ lb/MMBtu on a 30-day rolling average. [Compliance with this emissions limitation is satisfied through compliance with Condition 4.1.10. Compliance with this streamlined limit ensures compliance with 40 CFR §§60.43Da\(b\)\(2\) and \(g\).](#)  
**[~~40 CFR §60.43Da(g)~~]**
- ~~b. SO<sub>2</sub> concentration of no greater than 215 ppmvd corrected to 3.0 percent oxygen on a 24 hour average.~~

~~e.—The SO<sub>2</sub> reduction efficiency from each unit shall not be less than 94.6% on a 30-day rolling average. Compliance with this underlying permit requirement ensures compliance with the 70 percent reduction requirement in 40 CFR §60.43Da(a)(2).~~

~~[40 CFR §§60.43Da(a)(2) and 60.43Da(g)]~~

~~[45CSR14, R14-0007, 4.1.2. and 4.1.2.a. through e.; 45CSR16; 40 CFR §§60.43Da(b)(a)(2) and, 60.43Da(g)]~~

4.1.7. Particulate Matter (PM) emissions emitted to the atmosphere from each of the [Primary Boilers](#) ~~CFB boilers~~ shall not exceed the following limits to the corresponding averaging periods.

a. [Filterable](#) PM emission rate shall not exceed [0.002](#) ~~0.03~~ lb/MMBtu of heat input on a [6-hour average basis](#) ~~30-day rolling average~~. *Compliance with this streamlined limit ensures compliance with 45CSR§2-4.1.b.*

~~[45CSR§2-4.1.a., and 40 CFR §60.42Da(a)]~~

b. PM<sub>10</sub> and PM<sub>2.5</sub> emissions shall not exceed 0.96 pounds on a 6-hour average basis. ~~concentration of no greater than 0.016 grains per dscf corrected to 3.5 percent oxygen.~~

~~[45CSR14, R14-0007, 4.1.1., 4.1.1.a., and 4.1.1.b.; 45CSR§2-4.1.b. 45CSR16; 40 CFR §§60.42Da(a)]~~

~~4.1.8.—The following conditions and requirements are specific to the auxiliary boilers (ID S009L and S009M):~~

~~a.—During those periods when neither of the two fluidized bed boilers are in operation but steam demand for the West Virginia University requires operation of either or both of the gas-fired auxiliary boilers, emission from the common stack shall not exceed the emission limits in Table 4.1.8.a.~~

<b>Table 4.1.8.a. Emission Limits for the Auxiliary Boilers</b>		
<b>Pollutant</b>	<b>lbm/hr</b>	<b>lbm/mmBtu</b>
Particulate Matter	1.20	0.0045
Sulfur Dioxide	0.14	$5.3 \times 10^{-4}$
Nitrogen Oxides	50	0.189*
Volatile Organic Compounds	1.95	0.0074
Carbon Monoxide	10	0.038

~~\* Emission limit shall be demonstrated on a 30-day rolling average basis. [40 CFR §60.44b(i)]~~

~~Compliance with these streamlined PM and SO<sub>2</sub> time rate limits assures compliance with 45CSR§2-4.1.b. and 45CSR§10-3.3.f., respectively. Compliance with this streamlined NO<sub>x</sub> heat rate limit assures compliance with 40 CFR §60.44b(a)(1)(ii).~~

~~[45CSR14, R14-0007, 4.1.16.a.; 45CSR§2-4.1.b.; 45CSR§10-3.3.f.; 40 CFR §60.44b(a)(1)(ii); 45CSR16]~~

~~4.1.9.—During periods when the CFB boilers are in operation, the emissions from Stack 1 shall not exceed the following emission limitations:~~

~~a.—Particulate matter emission shall not exceed 22.5 pounds per hour. Compliance with this streamlined PM limit assures compliance with 45CSR§2-4.1.a. for the CFB boilers (S009J, S009K).~~

- ~~b.—When the auxiliary boiler(s) are in operation, the PM emission rate shall not exceed 0.022 lb/MMBtu. Compliance with this streamlined PM limit assures compliance with 40 CFR §60.42Da(a) for the CFB boilers (S009J, S009K).~~
- ~~c.—Sulfur dioxide emission shall not exceed 285 pounds per hour on a 24 hour average basis. Compliance with this streamlined SO<sub>2</sub> limit assures compliance with 45CSR§10-3.3.f. for the auxiliary boilers (S009L, S009M).~~
- ~~d.—Nitrogen oxides (NO<sub>x</sub>) emission shall not exceed 300 pounds per hour on a 24 hours average basis.~~
- ~~e.—Carbon monoxide (CO) emissions shall not exceed 117.5 pounds per hour except when the auxiliary boiler(s) are in operation as well, then the CO emission rate shall not exceed 127.5 pounds per hour.~~
- ~~f.—Volatile organic compounds (VOC) emissions shall not exceed 5.5 pounds per hour except when the auxiliary boiler(s) are in operation as well, then the VOC emission rate shall not exceed 7.5 pounds per hour.~~
- ~~g.—Lead emissions shall not exceed 0.13 pound per hour.~~
- ~~h.—Mercury emissions shall not exceed 0.021 lb/hr.~~
- ~~i.—Fluorides emissions shall not exceed 0.4 pounds per hour.~~
- ~~j.—Beryllium emissions shall not exceed 0.0002 pounds per hour.~~
- ~~k.—Arsenic emissions shall not exceed 0.002 pounds per hour.~~
- ~~l.—Radionuclides emissions shall not exceed 0.0009 pounds per hour.~~

~~[45CSR14, R14-0007, 4.1.17.; 45CSR§2-4.1.a.; 45CSR§10-3.3.f.; 40 CFR §§60.42Da(a); 45CSR16]~~

~~4.1.10.—Annual Tune-up for 40 CFR 63 Subpart DDDDD. If your unit is a new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater as specified in 40 CFR §63.7540 (paragraphs (i) through (vi) of this condition). You must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. Units in the Gas 1 subcategory will conduct this tune-up as a work practice for all regulated emissions under 40 CFR 63 Subpart DDDDD.~~

- ~~(i)—As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;~~
- ~~(ii)—Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;~~



- ~~(iii) Inspect the system controlling the air to fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;~~
- ~~(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO<sub>x</sub> requirement to which the unit is subject;~~
- ~~(v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and~~
- ~~(vi) Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (vi)(A) through (C) of this condition.~~
  - ~~(A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune up of the boiler or process heater;~~
  - ~~(B) A description of any corrective actions taken as a part of the tune up; and~~
  - ~~(C) The type and amount of fuel used over the 12 months prior to the tune up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.~~

~~You must conduct an annual performance tune up according to §63.7540(a)(10). Each annual tune up specified in §63.7540(a)(10) must be no more than 13 months after the previous tune up.~~

~~If the unit is not operating on the required date for a tune up, the tune up must be conducted within 30 calendar days of startup.~~

~~[40 CFR §63.7500(a)(1), Table 3, Item #3; 40 CFR §§63.7505(a), 63.7515(d), 63.7540(a)(10) and (a)(10)(i) through (vi), 63.7540(a)(13); 45CSR34; 45CSR14, R14-0007, 4.1.16.b.] (Auxiliary Boilers S009L and S009M)~~

~~4.1.11. At all times, you must operate and maintain any affected source (as defined in 40 CFR §63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.~~

~~[40 CFR §63.7500(a)(3); 45CSR34] (Auxiliary Boilers S009L and S009M)~~

~~4.1.12. Filterable Particulate Matter (PM) Emission Limitation for 40 CFR 63 Subpart UUUUU. If your EGU is in the coal-fired unit not low-rank virgin coal subcategory, for filterable particulate matter (PM), you must meet the emission limit 0.030 lb/MMBtu or 0.30 lb/MWh (gross output), by collecting a minimum of 1 dscm per run according to applicable test methods in Table 5 to Subpart UUUUU.~~

~~[40 CFR §63.9991(a)(1), Table 2, Item #1.a.; 40 CFR §63.10000(a); 45CSR34; 45CSR14, R14-0007, 4.1.1.e.] (CFB Boilers S009J and S009K)~~

~~4.1.13. Sulfur Dioxide (SO<sub>2</sub>) Emission Limitation for 40 CFR 63 Subpart UUUUU. If your EGU is in the coal-fired unit not low-rank virgin coal subcategory, for sulfur dioxide (SO<sub>2</sub>), you must meet the emission limit 0.20 lb/MMBtu or 1.5 lb/MWh (gross basis), using SO<sub>2</sub>-CEMS according to applicable methods in Table 5 and procedures in Table 7 to 40 CFR 63 Subpart UUUUU.~~

~~You may use the alternate SO<sub>2</sub> limit in Table 2 to 40 CFR 63 Subpart UUUUU only if your EGU:~~

~~(1) Has a system using wet or dry flue gas desulfurization technology (this includes limestone injection into a fluidized bed combustion unit, as per the definition of *Dry flue gas desulfurization technology* in 40 CFR §63.10042) and an SO<sub>2</sub>-continuous emissions monitoring system (CEMS) installed on the EGU; and~~

~~(2) At all times, you operate the wet or dry flue gas desulfurization technology (this includes limestone injection into a fluidized bed combustion unit, as per the definition of *Dry flue gas desulfurization technology* in 40 CFR §63.10042) and the SO<sub>2</sub>-CEMS installed on the EGU consistent with 40 CFR §63.10000(b) (permit condition 4.1.18.).~~

~~The permittee shall operate a dry flue gas desulfurization system for the unit at all times consistent with 40 CFR §63.10000(b). Compliance with this requirement is satisfied through the use of limestone injection into the CFB boilers coupled with the fabric filter collection system.~~

~~[40 CFR §63.9991(a)(1), Table 2, Item #1.b.; 40 CFR §63.10021(a), Table 7, Item #1; 40 CFR §§63.9991(e)(1) and (2); 40 CFR §63.10000(a); 45CSR34; 45CSR14, R14-0007, 4.1.2.d. and 4.1.2.e.] (CFB Boilers S009J and S009K)~~

~~4.1.14. Mercury (Hg) Emission Limitation for 40 CFR 63 Subpart UUUUU. If your EGU is in the coal-fired unit not low-rank virgin coal subcategory, for mercury (Hg), you must meet the emission limit 1.2 lb/TBtu or 0.013 lb/GWh, using LEE testing for 30 boiler operating days with sampling period consistent with that given in section 5.2.1. of appendix A to Subpart UUUUU per Method 30B run or Hg CEMS or sorbent trap monitoring system only using applicable methods in Table 5 to Subpart UUUUU.~~

~~[40 CFR §63.9991(a)(1), Table 2, Item #1.c.; 40 CFR §63.10000(a); 45CSR34; 45CSR14, R14-0007, 4.1.6.] (CFB Boilers S009J and S009K)~~

~~4.1.15. Tune-up Work Practice Standard for 40 CFR 63 Subpart UUUUU. If your EGU is an existing EGU, you must conduct a tune-up of the EGU burner and combustion controls at least each 36 calendar months as specified in 40 CFR §63.10021(e). Each performance tune-up specified in §63.10021(e) must be no more than 36 calendar months after the previous performance tune-up.~~

~~Conduct periodic performance tune-ups of your EGU(s), as specified in paragraphs (1) through (9) of this condition. For your first tune-up, you may perform the burner inspection any time prior to the tune-up or you may delay the first burner inspection until the next scheduled EGU outage provided you meet the requirements of §63.10005. Subsequently, you must perform an inspection of the burner at least once every~~

~~36 calendar months unless your EGU employs neural network combustion optimization during normal operations in which case you must perform an inspection of the burner and combustion controls at least once every 48 calendar months. If your EGU is offline when a deadline to perform the tune up passes, you shall perform the tune up work practice requirements within 30 days after the re-start of the affected unit.~~

~~(1) As applicable, inspect the burner and combustion controls, and clean or replace any components of the burner or combustion controls as necessary upon initiation of the work practice program and at least once every required inspection period. Repair of a burner or combustion control component requiring special order parts may be scheduled as follows:~~

~~(i) Burner or combustion control component parts needing replacement that affect the ability to optimize NO<sub>x</sub> and CO must be installed within 3 calendar months after the burner inspection;~~

~~(ii) Burner or combustion control component parts that do not affect the ability to optimize NO<sub>x</sub> and CO may be installed on a schedule determined by the operator;~~

~~(2) As applicable, inspect the flame pattern and make any adjustments to the burner or combustion controls necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available, or in accordance with best combustion engineering practice for that burner type;~~

~~(3) As applicable, observe the damper operations as a function of mill and/or cyclone loadings, cyclone and pulverizer coal feeder loadings, or other pulverizer and coal mill performance parameters, making adjustments and effecting repair to dampers, controls, mills, pulverizers, cyclones, and sensors;~~

~~(4) As applicable, evaluate windbox pressures and air proportions, making adjustments and effecting repair to dampers, actuators, controls, and sensors;~~

~~(5) Inspect the system controlling the air to fuel ratio and ensure that it is correctly calibrated and functioning properly. Such inspection may include calibrating excess O<sub>2</sub> probes and/or sensors, adjusting overfire air systems, changing software parameters, and calibrating associated actuators and dampers to ensure that the systems are operated as designed. Any component out of calibration, in or near failure, or in a state that is likely to negate combustion optimization efforts prior to the next tune up, should be corrected or repaired as necessary;~~

~~(6) Optimize combustion to minimize generation of CO and NO<sub>x</sub>. This optimization should be consistent with the manufacturer's specifications, if available, or best combustion engineering practice for the applicable burner type. NO<sub>x</sub> optimization includes burners, overfire air controls, concentric firing system improvements, neural network or combustion efficiency software, control systems calibrations, adjusting combustion zone temperature profiles, and add on controls such as SCR and SNCR; CO optimization includes burners, overfire air controls, concentric firing system improvements, neural network or combustion efficiency software, control systems calibrations, and adjusting combustion zone temperature profiles;~~

~~(7) While operating at full load or the predominantly operated load, measure the concentration in the effluent stream of CO and NO<sub>x</sub> in ppm, by volume, and oxygen in volume percent, before and after the tune up adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). You may use portable CO, NO<sub>x</sub> and O<sub>2</sub> monitors for this measurement. EGU's employing neural network optimization systems need only provide a single pre-~~

~~and post tune up value rather than continual values before and after each optimization adjustment made by the system;~~

~~(8) Maintain on site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (1) through (9) of this condition including:~~

~~(i) The concentrations of CO and NO<sub>x</sub> in the effluent stream in ppm by volume, and oxygen in volume percent, measured before and after an adjustment of the EGU combustion systems;~~

~~(ii) A description of any corrective actions taken as a part of the combustion adjustment; and~~

~~(iii) The type(s) and amount(s) of fuel used over the 12 calendar months prior to an adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period; and~~

~~(9) Report the dates of the initial and subsequent tune ups in hard copy, as specified in §63.10031(f)(5) (condition 4.5.14.(5)), through June 30, 2020. On or after July 1, 2020, report the date of all tune ups electronically, in accordance with §63.10031(f). The tune up report date is the date when tune up requirements in paragraphs (6) and (7) of this condition are completed.~~

~~[40 CFR §63.9991(a)(1), Table 3, Item #1; 40 CFR §§63.10021(e) and (e)(1) through (9); 40 CFR §63.10021(a), Table 7, Item #5; 40 CFR §63.10000(e); 40 CFR §63.10005(e); 40 CFR §63.10006(i)(1); 45CSR34; 45CSR14, R14-0007, 4.1.8.] (CFB Boilers S009J and S009K)~~

~~4.1.16. Startup Work Practice Standard for 40 CFR 63 Subpart UUUUU. If your EGU is a coal-fired EGU during startup you must operate all CMS during startup. Startup means either the first ever firing of fuel in a boiler for the purpose of producing electricity, or the firing of fuel in a boiler after a shutdown event for any purpose. Startup ends when any of the steam from the boiler is used to generate electricity for sale over the grid or for any other purpose (including on site use). For startup of a unit, you must use natural gas for ignition. Once you convert to firing coal, residual oil, or solid oil-derived fuel, you must engage all of the applicable control technologies except dry scrubber and SCR. You must start your dry scrubber and SCR systems, if present, appropriately to comply with relevant standards applicable during normal operation. You must comply with all applicable emissions limits at all times except for periods that meet the definitions of startup and shutdown in this subpart. You must keep records during startup periods. You must provide reports concerning activities and startup periods, as specified in §63.10021(i) (condition 4.5.11.a.(1)).~~

~~[40 CFR §63.9991(a)(1), Table 3, Item #3; 40 CFR §63.10021(a), Table 7, Item #6; 40 CFR §63.10000(a); 40 CFR §63.10005(j); 40 CFR §63.10011(g); 45CSR34; 45CSR14, R14-0007, 4.1.9. and 4.1.10.] (CFB Boilers S009J and S009K)~~

~~4.1.17. Shutdown Work Practice Standard for 40 CFR 63 Subpart UUUUU. You must operate all CMS during shutdown. You must also collect appropriate data, and you must calculate the pollutant emission rate for each hour of shutdown for those pollutants for which a CMS is used.~~

~~While firing coal, residual oil, or solid oil-derived fuel during shutdown, you must vent emissions to the main stack(s) and operate all applicable control devices and continue to operate those control devices after the cessation of coal, residual oil, or solid oil-derived fuel being fed into the EGU and for as long as possible thereafter considering operational and safety concerns. In any case, you must operate your controls when necessary to comply with other standards made applicable to the EGU by a permit limit or a rule other than this Subpart and that require operation of the control devices.~~

~~If, in addition to the fuel used prior to initiation of shutdown, another fuel must be used to support the shutdown process, that additional fuel must be one or a combination of the clean fuels defined in §63.10042 and must be used to the maximum extent possible, taking into account considerations such as not compromising boiler or control device integrity.~~

~~You must comply with all applicable emissions limits at all times except during startup periods and shutdown periods at which time you must meet this work practice. You must collect monitoring data during shutdown periods, as specified in §63.10020(a). You must keep records during shutdown periods, as provided in §§63.10032 and 63.10021(h). Any fraction of an hour in which shutdown occurs constitutes a full hour of shutdown. You must provide reports concerning activities and shutdown periods as specified in §63.10021(i) (condition 4.5.11.a.(1)).~~

~~[40 CFR §63.9991(a)(1), Table 3, Item #4; 40 CFR §63.10021(a), Table 7, Item #7; 40 CFR §63.10000(a); 40 CFR §63.10005(j); 40 CFR §63.10011(g); 45CSR34; 45CSR14, R14-0007, 4.1.9. and 4.1.11.] (CFB Boilers S009J and S009K)~~

~~4.1.18. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the EPA Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.~~

~~[40 CFR §63.10000(b); 45CSR34; 45CSR14, R14-0007, 4.1.7.] (CFB Boilers S009J and S009K).~~

~~4.1.19. You must determine the fuel whose combustion produces the least uncontrolled emissions, i.e., the cleanest fuel, either natural gas or distillate oil, that is available on site or accessible nearby for use during periods of startup or shutdown. Your cleanest fuel, either natural gas or distillate oil, for use during periods of startup or shutdown determination may take safety considerations into account.~~

~~[40 CFR §§63.10011(f)(1) and (2); 45CSR34] (CFB Boilers S009J and S009K)~~

~~4.1.8.~~ 4.1.20 Emissions of carbon monoxide (CO) emitted to the atmosphere from each of the [Primary Boilers](#) ~~CFB boilers~~ shall not exceed the following limits to the corresponding averaging periods.

~~a. CO concentration shall not exceed 188 ppmvd corrected to 3% oxygen on a 24-hr average.~~

~~a.~~ b. CO emissions rate shall not exceed 0.077 ~~0.157~~ lb/MMBtu on a 3-hr average.

~~[45CSR14, R14-0007, 4.1.4.]~~

~~4.1.9.~~ 4.1.21 Emissions of volatile organic compounds (VOC) emitted to the atmosphere from each of the [Primary Boilers](#) ~~CFB boilers~~ shall not exceed 0.005 ~~0.0074~~ lb/MMBtu on a 3-hr average.

~~[45CSR14, R14-0007, 4.1.5.]~~

4.1.10. Each of the Primary Boilers shall be limited to a maximum heat input not to exceed 138.6 MMBtu/hr over a 24-hour average basis and limited to combusting either natural gas with a total sulfur loading of no greater than 2 grains per 100 standard cubic feet or meeting the definition of “pipeline natural gas” stipulated in 40 CFR §72.2.

[45CSR14, R14-0007, 4.1.6.]

4.1.11. **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.

[45CSR14, R14-0007, 4.1.7., 45CSR§13-5.10.]

~~4.1.22. If the permittee elects to demonstrate compliance with PM and/or Hg emissions limit of Condition 4.1.12. and/or Condition 4.1.14., respectively, through use of a continuous monitoring system (CMS), where a CMS includes a continuous parameter monitoring system (CPMS) as well as a continuous emissions monitoring system (CEMS), the permittee must develop a site specific monitoring plan and submit this site specific monitoring plan in accordance with Conditions 3.5.1. at least 60 days before the initial performance evaluation (where applicable) of the CMS. The site specific monitoring plan shall include the information specified in 40 CFR §§63.10000(d)(5)(i) through (d)(5)(vii). The permittee must operate and maintain the CMS according to the site specific monitoring plan.~~

~~[45CSR14, R14-0007, 4.1.12.; 40 CFR §§63.10000(d)(1), (d)(2), and (d)(3); 45CSR34]~~

## 4.2. Monitoring Requirements

4.2.1. *Continuous Monitoring Requirements:* The owner or operator shall install, calibrate, maintain and certify, operate, a CEMS, and a diluent monitor, maintain, and record the output of the system for measuring continuous monitoring systems that measure all Opacity, SO<sub>2</sub>, NO<sub>x</sub>, and O<sub>2</sub> or CO<sub>2</sub> emissions from emission point *Stack 1* as specified in 40 CFR Part 60, Subpart Da for the Primary Boilers. CFB boilers; and NO<sub>x</sub> as specified in 40 CFR Part 60, Subpart Db for the auxiliary boilers. Alternatively, the SO<sub>2</sub>, NO<sub>x</sub> and O<sub>2</sub> or CO<sub>2</sub> CEMS shall be certified, operated, and maintained in accordance with the requirements of 40 CFR Part 75, provided that the relevant requirements of 40 CFR §§60.49Da(b)(4), (c)(2), and (d) are met. Recordkeeping and reporting shall be conducted pursuant to Subparts F and G in 40 CFR Part 75. Such records of this monitoring system, data collected, and calculated values shall be maintained in accordance with Condition 3.4.2. These systems shall be installed, calibrated, properly functioning, and certified in accordance with the requirements of 4.2.1.a, 4.2.3., 4.2.4. and 4.4.2.

~~*NO<sub>x</sub> CEMS:* The NO<sub>x</sub> CEMS shall be certified, operated, and maintained in accordance with the requirements of 40 CFR 75. For use of NO<sub>x</sub> CEMS used to demonstrate compliance for the auxiliary boilers (S009L and S009M), the permittee shall also meet the requirements of 40 CFR §60.49b. Data reported to meet the requirements of 40 CFR §60.49b for the auxiliary boilers shall not include data substituted using the missing data procedures in Subpart D of Part 75 of Chapter 40, nor shall the data have been bias adjusted according to the procedures of Part 75 of Chapter 40. [40 CFR §60.48b(b)(2)]~~

*Diluent Monitor:* The oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) content of the flue gas shall be monitored at the location where SO<sub>2</sub> and NO<sub>x</sub> is are monitored. Each monitor shall comply with the performance and quality assurance requirements of 40 CFR 60 ~~40 CFR 75~~.

- i. ~~If the permittee uses an oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) CEMS to convert measured pollutant concentrations to the units of emissions limit in Condition 4.1.13., the O<sub>2</sub> or CO<sub>2</sub> concentrations shall be monitored at a location that represents emissions to the atmosphere, i.e., at the outlet of the EGU, downstream of all emission control devices. The permittee must install, certify, maintain, and operate the CEMS according to part 75 of this chapter. Use only quality assured O<sub>2</sub> or CO<sub>2</sub> data in the emissions calculations; do not use part 75 substitute data values. [40 CFR §63.10010(b)]~~

~~Flow Monitor: The volumetric flow rate of the flue gas shall be monitored at the location where SO<sub>2</sub> and NO<sub>x</sub> are monitored. Each monitor shall comply with the performance and quality assurance requirements of 40 CFR 75. [40 CFR §60.49Da(m)]~~

- a. ~~Fuel Flow Monitor: The Permittee shall install, calibrate, maintain, and operate flow meters to measure the natural gas flow rate to each of the Primary Boilers. The fuel flowmeters used to continuously monitor and record the flow rate of natural gas combusted by the Primary Boilers Nos. 1 and 2 (S009J and S009k) auxiliary boilers shall have the accuracy of 2.0 percent of the upper range value (i.e. maximum fuel flow rate measurable by the flowmeter) across the range of fuel flow rate to be measured at the unit. The measured flowrate data must be reduced in hourly averages. Flowmeter accuracy may be determined under Section 2.1.5.1 of Appendix D to Part 75 Optional SO<sub>2</sub> Emissions Data Protocol for Gas-Fired and Oil-Fired Units of Chapter 40 for initial certification in any of the following ways (as applicable): by design (orifice, nozzle, and venturi-type flowmeters, only) or by measurement under laboratory conditions; by the manufacturer; by an independent laboratory; or by the owner or operator. Flowmeter accuracy may also be determined under Section 2.1.5.2 of Appendix D to Part 75 Optional SO<sub>2</sub> Emissions Data Protocol for Gas-Fired and Oil-Fired Units of Chapter 40 by in-line comparison against a reference flowmeter. Alternatively, an orifice, nozzle or venturi flowmeter may be certified if: (a) the primary element (for example, the orifice plate) meets the design criteria specified in American Gas Association Report No. 3; (b) the primary element passes a visual inspection; and (c) the pressure, temperature, and differential pressure transmitters are calibrated with standards traceable to the National Institute of Standards and Technology (NIST). Fuel flowmeter accuracy testing must be performed once every four-fuel flowmeter QA operating 4-calendar quarters thereafter, unless the flowmeter qualifies for an extension of the test deadline as outlined in Section 2.1.6. Quality Assurance of Appendix D of Part 75 to Chapter 40.~~

~~COMS: Exhaust gas opacity from Stack 1 shall be monitored using a continuous opacity monitoring system for the purpose of demonstrating compliance with Condition 4.1.1. The permittee shall install, calibrate, maintain, and operate the COMS in accordance with Performance Specification (PS) 1 in 40 CFR Part 60, Appendix B. [40 CFR §§60.49Da(a) and (a)(1); 45CSR§2-8.2.a.1., and 45CSR§2A-6.2.]~~

~~[45CSR16; 40 CFR §§60.49Da(c)(1), (d) and (n), 40 CFR §60.48b, 40 CFR §60.13; 45CSR13, R14-0007, 4.2.1., 4.2.1.a., and 45CSR§30-5.1.c. 4.2.1.b., 4.2.1.e., 4.2.1.d., 4.2.1.e. and 4.2.1.f.; 45CSR§10-8.2.e.1.; 40 CFR §§64.3(a), 64.3(b), 64.3(d)(1), and 64.6(e)(1); 40 CFR §§60.49Da(b)(4), (c)(2), and (d)]~~

- 4.2.2. Compliance with the visible emission requirements of 45CSR§2-3.1. (condition 4.1.1.) shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems, ~~and as described in the approved monitoring plan. Compliance with the weight emission limit (4.1.9.) shall be demonstrated by periodic particulate matter stack testing (4.3.1. and 4.3.12.), conducted in accordance with the appropriate test method set forth in the Appendix to 45CSR2 or other equivalent EPA approved method approved by the Director. Such testing shall be conducted at a frequency to be established by the Director. [Permit R14 0007 serves as the approved monitoring plan.]~~ [45CSR§2-3.2. and 8.1.a., 45CSR§2A-6]

- ~~4.2.3. Compliance with the visible emissions limit (4.1.1.) shall be monitored as set forth in the approved monitoring plan for each emission unit. [*Permit R14 0007 serves as the approved monitoring plan.*]  
[45CSR§2-8.2.a.]~~
- ~~4.2.4. **Commencement of operation.** The permittee shall conduct the monitoring required under 40 CFR Part 64 upon issuance of this permit that includes such monitoring.  
[40 CFR §64.7(a); 45CSR§30-5.1.e.]~~
- ~~4.2.5. **Proper Maintenance** At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.  
[40 CFR §64.7(b); 45CSR§30-5.1.e.]~~
- ~~4.2.6. **Continued Operation** Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee 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 40 CFR Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.  
[40 CFR §64.7(c); 45CSR§30-5.1.e.]~~
- ~~4.2.7. **Documentation of Need for Improved Monitoring** After approval of monitoring under 40 CFR Part 64, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.  
[40 CFR §64.7(e); 45CSR§30-5.1.e.]~~
- ~~4.2.8. **Quality Improvement Plan (QIP)** Based on the results of a determination made under permit condition 4.4.3.(2), the Administrator or the Director may require the permittee to develop and implement a QIP. Consistent with 40 CFR §64.6(e)(3), the permittee is limited to an accumulation of exceedances or excursions no greater than five (5) percent of the operating time for the boilers during a reporting period, prior to requiring the implementation of a QIP. If a QIP is required, then it shall be developed, implemented, and modified as required according to 40 CFR §§64.8(b) through (e). Refer to permit condition 4.5.6.(2)(iii) for the reporting required when a QIP is implemented.  
[40 CFR §64.8; 45CSR§30-5.1.e.]~~
- ~~4.2.9. **Supplementary Actions prior to an Excursion** For CAM purposes, normal operation shall be between 0% and 6% opacity on a six minute block basis during any one hour period. Opacity greater than 6% (six-minute block) triggers the following supplementary actions.~~



- ~~a. Monitor the opacity as the baghouses (which are dedicated to either CFB#1 or CFB#2) go through a manually initiated cleaning cycle. The opacity will increase when the compartment with the problem or leaking bag goes through the cleaning cycle.~~
- ~~b. Once the problem compartment is identified, the compartment will be isolated and appropriate corrective measures will be taken.~~

~~[40 CFR §64.3(a); 45CSR§§30-5.1.e. and 12.7.]~~

~~4.2.10. Excursions—An excursion shall be defined as opacity greater than eight (8) percent during any six minute period during any one hour period after supplementary action (as defined in condition 4.2.9.) has been taken. An excursion will not be deemed to have occurred if the opacity exceeds 8% during the cleaning cycle specified in condition 4.2.9.a. If the opacity exceeds 8% before the permittee has time to perform the supplementary actions in condition 4.2.9., an excursion will be deemed to have occurred. Refer to conditions 4.4.3., 4.4.4., and 4.5.6. for recordkeeping and reporting requirements for excursions.~~

~~[40 CFR §64.6(e)(2); 45CSR§30-5.1.e.]~~

~~4.2.11. 40 CFR 63 Subpart UUUUU affected units utilizing common stack with non affected units.~~

~~(i) When one or more affected units shares a common stack with one or more non affected units, you shall either:~~

~~(A) Install the required CEMS, PM CPMS, and sorbent trap monitoring systems in the ducts leading to the common stack from each affected unit; or~~

~~(B) Install the required CEMS, PM CPMS, and sorbent trap monitoring systems described in this section in the common stack and attribute all of the emissions measured at the common stack to the affected unit(s).~~

~~(ii) If you choose the common stack monitoring option:~~

~~(A) For each hour in which valid data are obtained for all parameters, you must calculate the pollutant emission rate and~~

~~(B) You must assign the calculated pollutant emission rate to each unit that shares the common stack.~~

~~[40 CFR §63.10010(a)(3); 45CSR34; 45CSR14, R14-0007, 4.2.1.a.i.] (CFB Boilers S009J and S009K)~~

~~4.2.12. Specifications and Operation of SO<sub>2</sub> CEMS for 40 CFR 63 Subpart UUUUU.~~

~~(1) If you use an SO<sub>2</sub> CEMS, you must install the monitor at the outlet of the EGU, downstream of all emission control devices, and you must certify, operate, and maintain the CEMS according to 40 CFR part 75.~~

~~(2) For on-going QA, the SO<sub>2</sub> CEMS must meet the applicable daily, quarterly, and semiannual or annual requirements in sections 2.1 through 2.3 of appendix B to 40 CFR part 75, with the following addition: You must perform the linearity checks required in section 2.2 of appendix B to 40 CFR part 75 if the SO<sub>2</sub> CEMS has a span value of 30 ppm or less.~~

~~(3) Calculate and record a 30 boiler operating day rolling average SO<sub>2</sub> emission rate in the units of the standard, updated after each new boiler operating day. Each 30 boiler operating day rolling average emission rate is the average of all of the valid hourly SO<sub>2</sub> emission rates in the 30 boiler operating day period.~~

~~(4) Use only unadjusted, quality assured SO<sub>2</sub> concentration values in the emissions calculations; do not apply bias adjustment factors to the part 75 SO<sub>2</sub> data and do not use part 75 substitute data values. For startup or shutdown hours (as defined in §63.10042) the default gross output and the diluent cap are available for use in the hourly SO<sub>2</sub> emission rate calculations, as described in §63.10007(f). Use a flag to identify each startup or shutdown hour and report a special code if the diluent cap or default gross output is used to calculate the SO<sub>2</sub> emission rate for any of these hours.~~

~~[40 CFR §§63.10010(f)(1) through (4); 45CSR34; 45CSR14, R14-0007, 4.2.1.a.ii., iii., and iv.] (CFB Boilers S009J and S009K)~~

~~4.2.13.—You must operate the monitoring system and collect data at all required intervals at all times that the affected EGU is operating, except for periods of monitoring system malfunctions or out of control periods (see 40 CFR §63.8(e)(7) of this part), and required monitoring system quality assurance or quality control activities, including, as applicable, calibration checks and required zero and span adjustments. You are required to affect monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable.~~

~~[40 CFR §63.10020(b); 45CSR34] (CFB Boilers S009J and S009K, SO<sub>2</sub> CEMS)~~

~~4.2.14.—You may not use data recorded during EGU startup or shutdown in calculations used to report emissions, except as otherwise provided in §§63.10000(e)(1)(vi)(B) and 63.10005(a)(2)(iii). In addition, data recorded during monitoring system malfunctions or monitoring system out of control periods, repairs associated with monitoring system malfunctions or monitoring system out of control periods, or required monitoring system quality assurance or control activities may not be used in calculations used to report emissions or operating levels. You must use all the quality assured data collected during all other periods in assessing the operation of the control device and associated control system.~~

~~[40 CFR §63.10020(e); 45CSR34; 45CSR14, R14-0007, 4.4.4.i.] (CFB Boilers S009J and S009K, SO<sub>2</sub> CEMS)~~

~~4.2.15.—Except for periods of monitoring system malfunctions or monitoring system out of control periods, repairs associated with monitoring system malfunctions or monitoring system out of control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), failure to collect required data is a deviation from the monitoring requirements.~~

~~[40 CFR §63.10020(d); 45CSR34; 45CSR14, R14-0007, 4.4.4.j.] (CFB Boilers S009J and S009K, SO<sub>2</sub> CEMS)~~

~~4.2.16.—Except as otherwise provided in 40 CFR §63.10020(e) (condition 4.2.14.), if you use a CEMS to measure SO<sub>2</sub>, PM, or Hg emissions, or using a sorbent trap monitoring system to measure Hg emissions, you must demonstrate continuous compliance by using all quality assured hourly data recorded by the CEMS (or sorbent trap monitoring system) and the other required monitoring systems (e.g., flow rate, CO<sub>2</sub>, O<sub>2</sub>, or moisture systems) to calculate the arithmetic average emissions rate in units of the standard on a continuous 30 boiler operating day (or, if alternate emissions averaging is used for Hg, 90 boiler operating day) rolling average basis, updated at the end of each new boiler operating day. Use Equation 8 in 40 CFR §63.10021(b) to determine the 30 (or, if applicable, 90 ) boiler operating day rolling average.~~

~~[40 CFR §63.10021(b); 45CSR34] (CFB Boilers S009J and S009K)~~

~~4.2.17. If you use an oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) CEMS to convert measured pollutant concentrations to the units of the applicable emissions limit, the O<sub>2</sub> or CO<sub>2</sub> concentrations shall be monitored at a location that represents emissions to the atmosphere, i.e., at the outlet of the EGU, downstream of all emission control devices. You must install, certify, maintain, and operate the CEMS according to part 75 of this chapter. Use only quality-assured O<sub>2</sub> or CO<sub>2</sub> data in the emissions calculations; do not use part 75 substitute data values. [40 CFR §63.10010(b); 45CSR34] (CFB Boilers S009J and S009K, SO<sub>2</sub> CEMS)~~

4.2.3. ~~4.2.18.~~ NO<sub>x</sub> & SO<sub>2</sub> CEMS: The permittee shall obtain emission data for at least 18 hours in at least 22 out of 30 successive boiler operating days. If this minimum data requirement cannot be met with CEMS, the permittee shall supplement emission data with other monitoring systems approved by the Administrator or the reference methods and procedures as described in ~~40 CFR §60.49Da(h) for SO<sub>2</sub> and~~ Test Method 7 or 7A for NO<sub>x</sub>.  
[45CSR14, R14-0007, 4.2.1.b. i.; 40 CFR §60.49Da(f)(1) ~~and §60.48b(f)~~; 45CSR16]

4.2.4. ~~4.2.19.~~ NO<sub>x</sub> ~~and SO<sub>2</sub>~~-Emissions: The permittee shall determine 30 day rolling average for each of the Primary Boilers ~~CFB boilers~~ for NO<sub>x</sub> ~~and SO<sub>2</sub>~~, in accordance with 40 CFR §60.48Da, which is to be expressed in lb/MMBtu. The permittee shall determine the 30 day rolling average of NO<sub>x</sub> in accordance with 40 CFR §60.48Da(b), which is to be expressed in lb/MMBtu. Compliance with applicable 30-boiler operating day rolling average NO<sub>x</sub> emissions limits is determined by calculating the arithmetic average of all hourly emission rates for NO<sub>x</sub> for the 30 successive boiler operating days, except for data obtained during startup, shutdown, or malfunction.  
[45CSR14, R14-0007, 4.2.1.c. j.; 40 CFR §§60.48Da(b) ~~and (d)~~ ~~and §60.48b~~; 45CSR16]

~~4.2.20. The permittee shall install, calibrate, maintain, and operate an “as fired” fuel monitoring system (upstream of coal pulverizers) meeting the requirements of Method 19 of Appendix A of Part 60 be used to determine potential SO<sub>2</sub> emissions in place of a continuous SO<sub>2</sub> emission monitor at the inlet to the SO<sub>2</sub> control device as required under 40 CFR §60.49Da(b)(1). The permittee shall use the output data from the “as fired” system and SO<sub>2</sub> CEMS to determine compliance with the percent SO<sub>2</sub> reduction of Condition 4.1.6.c. in accordance with 40 CFR §60.50Da(e) on daily and 30 successive boiler operating days basis. Such records of this monitoring system, data collected, and calculated values shall be maintained in accordance with Condition 3.4.2.~~  
~~[45CSR14, R14-0007, 4.2.2.; 40 CFR §§60.49Da(b) and (b)(3), and §§60.50Da(a) and (e); 45CSR16]~~

~~4.2.21. On or before the date an EGU is subject to this subpart, you must install, certify, operate, maintain, and quality assure each monitoring system necessary for demonstrating compliance with the work practice standards for PM or non-mercury HAP metals during startup periods and shutdown periods. You must collect, record, report, and maintain data obtained from these monitoring systems during startup periods and shutdown periods.~~  
~~[40 CFR §63.10000(i); 45CSR34]~~

### 4.3. Testing Requirements

4.3.1. Reserved. ~~Compliance with the particulate matter emission limitations under condition 4.1.7.a. and 4.1.7.b. and 40 CFR §60.42Da(a) shall be demonstrated in accordance with 40 CFR §60.8, 40 CFR §60.48Da, 40 CFR §60.50Da, and 45CSR2 Appendix Compliance Test Procedures for 45CSR2.~~  
~~[45CSR§30-5.1.c.]~~

- ~~4.3.2.—Compliance with the sulfur dioxide emission limitation and sulfur dioxide reduction requirements under conditions 4.1.6., and 4.1.9.c. and as required by 40 CFR §60.43Da(a), shall be demonstrated in accordance with 40 CFR §60.8, 40 CFR §60.48Da, 40 CFR §60.49Da and 40 CFR §60.50Da, except that compliance with the maximum SO<sub>2</sub> emission limitation (in units of ppmvd and lb/hr) shall be demonstrated for each and all fixed twenty four hour periods. Compliance with the SO<sub>2</sub> emission limitations in units of lb/mmBtu and SO<sub>2</sub> percent reduction shall be demonstrated based on the rolling average of 30 successive boiler operating days.  
[40 CFR §60.43Da(g); 45CSR16; 45CSR§30-5.1.e.]~~
- ~~4.3.3.—Compliance with the nitrogen oxides emission limitation under condition 4.1.5. shall be demonstrated in accordance with 40 CFR §60.8, 40 CFR §60.48Da, 40 CFR §60.49Da, and 40 CFR §60.50Da.  
[45CSR§30-5.1.e.]~~
- ~~4.3.4.—Compliance with the nitrogen oxides emission limitations under condition 4.1.8. shall be demonstrated in accordance with 40 CFR §60.8, 40 CFR §60.46b, 40 CFR §60.48b and 40 CFR §60.49b.  
[45CSR§30-5.1.e.]~~
- ~~4.3.5.—Compliance with the volatile organic compound emission limitation under conditions 4.1.8., and 4.1.9. shall be demonstrated in accordance with 40 CFR 60, Appendix A—Method 25 or 25A.  
[45CSR§30-5.1.e.]~~
- ~~4.3.6.—Compliance with the carbon monoxide emission limitations under conditions 4.1.8., and 4.1.9. shall be demonstrated in accordance with 40 CFR 60 Appendix A—Method 10.  
[45CSR§30-5.1.e.]~~
- ~~4.3.7.—The owner or operator shall conduct a test at least once every five (5) years to determine the compliance of the CFB Boilers 1 & 2 with the carbon monoxide (CO) limits of condition 4.1.9. Such tests shall be conducted in accordance with 40 CFR 60 Appendix A—Method 10. A compliance test shall be conducted no later than eighteen (18) months of the issuance date of this permit. An emission factor shall be determined from the test results and updated from the results of each subsequent test. The emission factor shall be used for compliance demonstration for periods between tests.  
[45CSR§30-5.1.e.]~~
- ~~4.3.8.—Compliance with the emission limitation for lead under condition 4.1.9. shall be demonstrated in accordance with 40 CFR 60 Appendix A—Method 12.  
[45CSR§30-5.1.e.]~~
- ~~4.3.9.—Compliance with the emission limitation for mercury under condition 4.1.9. shall be demonstrated in accordance with 40 CFR Part 60, Appendix A, Method 30B.  
[45CSR§30-5.1.e.]~~
- ~~4.3.10.—Compliance with the emission limitation for fluorides under condition 4.1.9. shall be demonstrated in accordance with 40 CFR 60, Appendix A—Method 13.  
[45CSR§30-5.1.e.]~~
- ~~4.3.11.—Compliance with the emission limitation for beryllium under condition 4.1.9. shall be demonstrated in accordance with 40 CFR 61, Appendix B—Method 104.  
[45CSR§30-5.1.e.]~~

~~4.3.12. The owner or operator shall conduct, or have conducted, tests to determine the compliance of CFB Boilers 1 & 2 with the particulate matter mass emission limitations. Such tests shall be conducted in accordance with the appropriate method set forth in 45CSR2 Appendix Compliance Test Procedures for 45CSR2, or other equivalent EPA approved method approved by the Director. Compliance tests were performed on March 6 and March 7, 2018 and resulted in mass emission rates less than 50% of the weight emission standard for both boilers. Therefore, the retesting frequency is “Once/3 years.” Subsequent testing shall be based on the schedule below.~~

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

~~[45CSR§2-8.1., 45CSR§2A-5.2.]~~

~~4.3.13. For coal fired units, initial performance testing is required for all pollutants, to demonstrate compliance with the filterable particulate matter (PM) and mercury (Hg) emission limits (conditions 4.1.12. and 4.1.14., respectively).~~

~~(i) For a coal fired EGU, you may conduct the initial performance testing in accordance with 40 CFR §63.10005(h), to determine whether the EGU qualifies as a low emitting EGU (LEE) for filterable particulate matter (PM) and mercury (Hg).~~

~~(ii) For a qualifying LEE for Hg emissions limits, you must conduct a 30-day performance test using Method 30B at least once every 12 calendar months to demonstrate continued LEE status (refer to permit condition 4.3.23.(1)(ii) for the specific number of days between performance tests). For affected units meeting the LEE requirements of 40 CFR §63.10005(h), you must repeat the performance test once every year for Hg according to Table 5 of 40 CFR 63 Subpart UUUUU and 40 CFR §63.10007. Should subsequent emissions testing results show the unit does not meet the~~

~~LEE eligibility requirements, LEE status is lost. If this should occur, for Hg, you must install, certify, maintain, and operate a Hg CEMS or a sorbent trap monitoring system in accordance with appendix A to 40 CFR 63 Subpart UUUUU, within 6 calendar months of losing LEE eligibility. Until the Hg CEMS or sorbent trap monitoring system is installed, certified, and operating, you must conduct Hg emissions testing quarterly (according to Item #4 in Table 7 to 40 CFR 63 Subpart UUUUU), except as otherwise provided in 40 CFR §63.10021(d)(1). You must have 3 calendar years of testing and CEMS or sorbent trap monitoring system data that satisfy the LEE emissions criteria to reestablish LEE status.~~

~~(iii) For a qualifying LEE for PM, you must conduct a performance test at least once every 36 calendar months to demonstrate continued LEE status (refer to permit condition 4.3.23.(1)(iii) for the specific number of days between performance tests). For affected units meeting the LEE requirements of 40 CFR §63.10005(h), you must repeat the performance test once every 3 years according to Table 5 of 40 CFR 63 Subpart UUUUU and 40 CFR §63.10007. Should subsequent emissions testing results show the unit does not meet the LEE eligibility requirements, LEE status is lost. If this should occur, for PM, you must conduct emissions testing quarterly (according to Item #4 in Table 7 to 40 CFR 63 Subpart UUUUU), except as otherwise provided in 40 CFR §63.10021(d)(1).~~

~~(iv) If your coal fired EGU does not qualify as a LEE for filterable particulate matter (PM), you must demonstrate compliance through an initial performance test and you must monitor continuous performance through either use of a particulate matter continuous parametric monitoring system (PM CPMS), a PM CEMS, or, for an existing EGU, compliance performance testing repeated quarterly (according to Item #4 in Table 7 to 40 CFR 63 Subpart UUUUU).~~

~~(vi) If your coal fired EGU does not qualify as a LEE for Hg, you must demonstrate initial and continuous compliance through use of a Hg CEMS or a sorbent trap monitoring system, in accordance with appendix A to 40 CFR 63 Subpart UUUUU.~~

~~For candidate LEE units, use the results of the performance testing described in 40 CFR §63.10005(h) to determine initial compliance with the applicable emission limit(s) in Table 2 to 40 CFR 63 Subpart UUUUU and to determine whether the unit qualifies for LEE status.~~

~~[40 CFR §§63.10000(e)(1)(i), (ii), (iii), (iv), and (vi); 40 CFR §63.10005(h); 40 CFR §§63.10006(b)(1) and (2); 40 CFR §63.10011(a); 40 CFR §63.10011(d); 40 CFR §63.10021(a), Table 7, Item #4; 45CSR34; 45CSR14, R14-0007, 4.2.1.g., 4.2.1.h., 4.3.1., and 4.3.2.] (CFB Boilers S009J and S009K)~~

~~4.3.14. Except as otherwise provided in 40 CFR §63.10007, you must conduct all required performance tests according to 40 CFR §63.7(d), (e), (f), and (h). You must also develop a site specific test plan according to the requirements in 40 CFR §63.7(e).~~

~~[40 CFR §63.10007(a); 45CSR34] (CFB Boilers S009J and S009K)~~

~~4.3.15. If you use SO<sub>2</sub> CEMS to determine compliance with a 30 boiler operating day rolling average emission limit, you must collect quality assured CEMS data for all unit operating conditions, including startup and shutdown (see 40 CFR §63.10011(g) and Table 3 to 40 CFR 63 Subpart UUUUU), except as otherwise provided in §63.10020(b). Emission rates determined during startup periods and shutdown periods (as defined in §63.10042) are not to be included in the compliance determinations, except as otherwise provided in §§63.10000(e)(1)(vi)(B) and 63.10005(a)(2)(iii).~~

~~[40 CFR §63.10007(a)(1); 45CSR34] (CFB Boilers S009J and S009K)~~

- ~~4.3.16. If you conduct performance testing with test methods in lieu of continuous monitoring, operate the unit at maximum normal operating load conditions during each periodic (e.g., quarterly) performance test. Maximum normal operating load will be generally between 90 and 110 percent of design capacity but should be representative of site-specific normal operations during each test run.  
[40 CFR §63.10007(a)(2); 45CSR34] (CFB Boilers S009J and S009K)~~
- ~~4.3.17. You must conduct each performance test (including traditional 3-run stack tests, 30-boiler operating day tests based on CEMS data (or sorbent trap monitoring system data), and 30-boiler operating day Hg emission tests for LEE qualification) according to the requirements in Table 5 to 40 CFR 63 Subpart UUUUU.  
[40 CFR §63.10007(b); 45CSR34] (CFB Boilers S009J and S009K)~~
- ~~4.3.18. Except for a 30-boiler operating day performance test based on CEMS (or sorbent trap monitoring system) data, where the concept of test runs does not apply, you must conduct a minimum of three separate test runs for each performance test, as specified in 40 CFR §63.7(e)(3). Each test run must comply with the minimum applicable sampling time or volume specified in Table 2 to 40 CFR 63 Subpart UUUUU. Sections 63.10005(d) and (h) (condition 4.3.13.), respectively, provide special instructions for conducting performance tests based on CEMS or sorbent trap monitoring systems, and for conducting emission tests for LEE qualification.  
[40 CFR §63.10007(d); 45CSR34] (CFB Boilers S009J and S009K)~~
- ~~4.3.19. To use the results of performance testing to determine compliance with the applicable emission limits in Table 2 to 40 CFR 63 Subpart UUUUU, proceed as in 40 CFR §§63.10007(e)(1) through (3).  
[40 CFR §63.10007(e); 45CSR34] (CFB Boilers S009J and S009K)~~
- ~~4.3.20. Upon request, you shall make available to the EPA Administrator such records as may be necessary to determine whether the performance tests have been done according to the requirements of 40 CFR §63.10007.  
[40 CFR §63.10007(g); 45CSR34] (CFB Boilers S009J and S009K)~~
- ~~4.3.21. *Notification of performance test.* When you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 30 days before the performance test is scheduled to begin.  
[40 CFR §63.10030(d); 45CSR34; 45CSR14, R14-0007, 4.3.1. and 4.3.2.] (CFB Boilers S009J and S009K)~~
- ~~4.3.22. If a performance test on a non-mercury LEE shows emissions in excess of 50 percent of the emission limit and if you choose to reapply for LEE status, you must conduct performance tests at the appropriate frequency given in section (c) through (e) of 40 CFR §63.10006 for that pollutant until all performance tests over a consecutive 3-year period show compliance with the LEE criteria.  
[40 CFR §63.10006(h); 45CSR34] (CFB Boilers S009J and S009K)~~
- ~~4.3.23. *Time between performance tests.*~~
- ~~(1) Notwithstanding the provisions of §63.10021(d)(1), the requirements listed in paragraphs (g) and (h) of 63.10006, and the requirements of paragraph (3) of this condition, you must complete performance tests for your EGU as follows:~~
- ~~(i) At least 45 calendar days, measured from the test's end date, must separate performance tests conducted every quarter;~~

- ~~(ii) For annual testing:
  - ~~(A) At least 320 calendar days, measured from the test's end date, must separate performance tests;~~
  - ~~(B) At least 320 calendar days, measured from the test's end date, must separate annual sorbent trap mercury testing for 30 boiler operating day LEE tests;~~
  - ~~(C) At least 230 calendar days, measured from the test's end date, must separate annual sorbent trap mercury testing for 90 boiler operating day LEE tests; and~~~~
- ~~(iii) At least 1,050 calendar days, measured from the test's end date, must separate performance tests conducted every 3 years.~~
- ~~(2) For units demonstrating compliance through quarterly emission testing, you must conduct a performance test in the 4th quarter of a calendar year if your EGU has skipped performance tests in the first 3 quarters of the calendar year.~~
- ~~(3) If your EGU misses a performance test deadline due to being inoperative and if 168 or more boiler operating hours occur in the next test period, you must complete an additional performance test in that period as follows:
  - ~~(i) At least 15 calendar days must separate two performance tests conducted in the same quarter.~~
  - ~~(ii) At least 107 calendar days must separate two performance tests conducted in the same calendar year.~~
  - ~~(iii) At least 350 calendar days must separate two performance tests conducted in the same 3 year period.~~~~

~~[40 CFR §63.10006(f); 45CSR34; 45CSR14, R14-0007, 4.3.1. and 4.3.2.] (CFB Boilers S009J and S009K)~~

~~4.3.24. If you elect to (or are required to) use CEMS to continuously monitor Hg, HCl, HF, SO<sub>2</sub>, or PM emissions (or, if applicable, sorbent trap monitoring systems to continuously collect Hg emissions data), the default values in §§63.10007(f)(1) and (2) are available for use in the emission rate calculations during startup periods or shutdown periods (as defined in §63.10042). For the purposes of 40 CFR 63 Subpart UUUUU, these default values are not considered to be substitute data.~~

~~[40 CFR §63.10007(f); 45CSR34] (CFB Boilers S009J and S009K)~~

#### 4.4. Recordkeeping Requirements

- 4.4.1. Records of the operating schedule and quantity and quality of fuel consumed shall be maintained on site for each fuel burning unit and made available to the Director or his duly authorized representative upon request. Such records shall include, but not be limited to the date and time of start-up and shutdown and ~~for~~:
  - a. [The amount of natural gas combusted, and total heat energy consumed by each unit during each operating day.](#) ~~Pipeline quality natural gas~~—The quantity of fuel consumed on a monthly basis;



- b. [All records shall be maintained in accordance with Condition 3.4.2.](#) ~~Coal—Ash and BTU analysis from daily as-fired fuel samples and the quantity of fuel consumed on a daily basis.~~

*Note: Compliance with the daily as-fired fuel sampling frequency required by 40 CFR §60.49Da(b)(3) shall ensure compliance with the less stringent frequency requirement for each shipment specified in 45CSR§2A-7.1.a.4.*

~~[45CSR§2-8.3.c.; 45CSR§2A-7.1.a.1. and a.2.; 40 CFR §60.49Da(b)(3); 45CSR16; 45CSR14, R14-0007, 4.4.4.d.i. and 4.4.5.]~~

~~4.4.2.—Records of monitored data established in the monitoring plan shall be maintained on site and shall be made available to the Director or his duly authorized representative upon request.  
[45CSR§2-8.3.a.]~~

~~4.4.3.—Response to Excursions or Exceedances~~

- ~~(1) — Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable~~
- ~~(2) — Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process~~

~~[40 CFR §64.7(d); 45CSR§30-5.1.e.]~~

~~4.4.4.—General recordkeeping requirements for 40 CFR Part 64 (CAM)~~

~~The permittee shall comply with the recordkeeping requirements specified in permit conditions 3.4.1. and 3.4.2. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR §64.8 (4.2.8.) and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).~~

~~[40 CFR §64.9(b); 45CSR§30-5.1.e.]~~

~~4.4.5.—You must keep records according to paragraphs (1) and (2) of this condition.~~

- ~~(1) A copy of each notification and report that you submitted to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in 40 CFR §63.10(b)(2)(xiv).~~
- ~~(2) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR §63.10(b)(2)(viii).~~

~~[40 CFR §63.7555(a); 45CSR34] (Auxiliary Boilers S009L and S009M)~~

~~4.4.6. Format and Retention of Records for 40 CFR 63 Subparts DDDDD and UUUUU~~

- ~~(a) Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1).~~
- ~~(b) As specified in 40 CFR §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.~~
- ~~(c) You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). You can keep the records off site for the remaining 3 years.~~

~~[40 CFR §63.7560; 40 CFR §63.10033; 45CSR34]~~

~~4.4.7. You must keep records according to paragraphs (1) and (2) of this condition.~~

- ~~(1) A copy of each notification and report that you submitted to comply with 40 CFR 63 Subpart UUUUU, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in 40 CFR §63.10(b)(2)(xiv).~~
- ~~(2) Records of performance stack tests, fuel analyses, or other compliance demonstrations and performance evaluations, as required in 40 CFR §63.10(b)(2)(viii).~~

~~[40 CFR §63.10032(a); 45CSR34; 45CSR14, R14-0007, 4.4.4.a.] (CFB Boilers S009J and S009K)~~

~~4.4.8. For each CEMS, you must keep records according to paragraphs (1) through (4) of this condition.~~

- ~~(1) Records described in §63.10(b)(2)(vi) through (xi).~~
- ~~(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR §63.8(d)(3).~~
- ~~(3) Request for alternatives to relative accuracy test for CEMS as required in 40 CFR §63.8(f)(6)(i).~~
- ~~(4) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.~~

~~[40 CFR §63.10032(b); 45CSR34; 45CSR14, R14-0007, 4.4.4.b.] (CFB Boilers S009J and S009K)~~

~~4.4.9. You must keep the records required in Table 7 to 40 CFR 63 Subpart UUUUU (conditions 4.1.13., 4.3.13.(ii), 4.3.13.(iii), 4.3.13.(iv), 4.1.15., 4.1.16., and 4.1.17.) to show continuous compliance with each emission limit and operating limit that applies to you.~~

~~[40 CFR §§63.10032(e) and 63.10021(h); 45CSR34; 45CSR14, R14-0007, 4.4.4.e.] (CFB Boilers S009J and S009K)~~

~~4.4.10. For each EGU subject to an emission limit, you must also keep the records in paragraphs (1) and (3) of this condition.~~

~~(1) You must keep records of monthly fuel use by each EGU, including the type(s) of fuel and amount(s) used.~~

~~(3) For an EGU that qualifies as an LEE under 40 CFR §63.10005(h), you must keep annual records that document that your emissions in the previous stack test(s) continue to qualify the unit for LEE status for an applicable pollutant, and document that there was no change in source operations including fuel composition and operation of air pollution control equipment that would cause emissions of the pollutant to increase within the past year.~~

~~[40 CFR §§63.10032(d)(1) and (3); 45CSR34; 45CSR14, R14-0007, 4.4.4.d.] (CFB Boilers S009J and S009K)~~

~~4.4.11. Should you choose to rely on paragraph (1) of the definition of “startup” in 63.10042 for your EGU, you must keep records of the occurrence and duration of each startup or shutdown.~~

~~[40 CFR §§63.10032(f) and 63.10021(h); 45CSR34; 45CSR14, R14-0007, 4.4.4.e.] (CFB Boilers S009J and S009K)~~

~~4.4.12. You must keep records of the occurrence and duration of each malfunction of an operation (i.e., process equipment) or the air pollution control and monitoring equipment.~~

~~[40 CFR §63.10032(g); 45CSR34; 45CSR14, R14-0007, 4.4.4.f.] (CFB Boilers S009J and S009K)~~

~~4.4.13. You must keep records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.10000(b) (condition 4.1.18.), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.~~

~~[40 CFR §63.10032(h); 45CSR34; 45CSR14, R14-0007, 4.4.4.g.] (CFB Boilers S009J and S009K)~~

~~4.4.14. You must keep records of the type(s) and amount(s) of fuel used during each startup or shutdown.~~

~~[40 CFR §§63.10032(i) and 63.10021(h); 45CSR34; 45CSR14, R14-0007, 4.4.4.h.] (CFB Boilers S009J and S009K)~~

[4.4.2.](#) ~~4.4.15. *Continuous Monitoring Requirements.* Records of maintenance, calibration checks, and output data, shall be maintained in accordance with condition 3.4.2. The permittee must monitor and collect data according to 40 CFR §63.10020 and the site specific monitoring plan required in Condition 4.1.22.~~

~~[45CSR14, R14-0007, 4.2.1.d, k.]~~

~~4.4.16. The permittee shall record and maintain records as specified in the following for the two auxiliary boilers:~~

~~a. The amount of natural gas combusted during each day and calculate the annual capacity factor. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.~~

~~b. All records shall be maintained in accordance with Condition 3.4.2.~~

~~[40 CFR §60.49b(d)(1); 45CSR16; 45CSR14, R14-0007, 4.4.6.]~~

4.4.3. ~~4.4.17~~ For compliance with the NOx Heat Input limits for the [Primary Boilers identified as S009J and S009K see permit condition 5.4.2.](#) ~~CFB and Auxiliary Boilers (Conditions 4.1.5. and 4.1.8., the permittee shall determine the Weight Average NOx Limit for each operation day in accordance with the following:~~

$$\text{NOx}_{\text{Weight Avg}} = \frac{\{[0.40 \text{ lb/MMBtu} \times \text{HI}_{\text{CFBs}}] + [0.189 \text{ lb/MMBtu} \times \text{HI}_{\text{Auxs}}]\}}{\text{HI}_{\text{Total}}}$$

Where:

~~NOx<sub>Weight Avg</sub> = Average of the NOx limits based on Heat Input from the respective type of boiler, in terms of lb of NOx per MMBtu~~

~~HI<sub>CFBs</sub> = Combined Heat Input from the CFB Boilers, in terms of MMBtu/hr. This value shall be determined using difference of HI<sub>Auxs</sub> from HI<sub>total</sub> except when the both CFB are not in operation, in terms of MMBtu/hr. At times when both CFB units are not in operation, the value for HI<sub>CFBs</sub> shall be zero (0).~~

~~HI<sub>Auxs</sub> = Combined Heat Input from the Auxiliary Boilers, in terms of MMBtu/hr. This value shall be determined using actual amount of fuel metered to the auxiliary boilers in the respective time period and a gross calorific value of 1,050 Btu per standard cubic feet for natural gas.~~

~~HI<sub>total</sub> = Combined Heat Input from all the operating units during the time frame, in terms of MMBtu/hr~~

~~At all times when any of combination of the CFB units are operating, the total heat input (HI<sub>total</sub>) shall be determine by taking the hourly exhaust flow and converting this hourly value in terms of MMBtu/hr by multiplying by the Fc factor for bituminous coal (1,800 scf/MMBtu).~~

~~At times when neither of the CFB unit are not operating, the total heat input (HI<sub>total</sub>) shall be determined from the sum of the total heat input to the auxiliary boilers based on actual fuel metered to the units, in terms of MMBtu/hr.~~

~~The permittee shall determine this Weight Average NO<sub>x</sub> Limit (NO<sub>x</sub><sub>Weight Avg</sub>) for each operating day. The permittee shall begin to conduct this determination within 30 days after issuance of this permit. Each operating day shall mean when any one of the units (CFBs or Aux Boilers) is operated for any length of time during the day (24 hour period).~~

~~For determining compliance with the NO<sub>x</sub> heat input limits of Conditions 4.1.5.b. and 4.1.8., the permittee shall take the average of the NO<sub>x</sub> emission rate, which must be in terms of lb of NO<sub>x</sub> per MMBtu and utilize the total heat input (HI<sub>total</sub>) determined using the approach outline in this condition, from emission point Stack 1 of the previous 30 operating days compared to the average of the previous 30 operating days of the Weight Average NO<sub>x</sub> Limit to determine the amount of excess emission emitted if any.~~

~~40 CFR Part 75 missing data procedures shall not be used in determining the NO<sub>x</sub> emission rate from Stack 1.~~

~~The records of these determinations and amount of excess NO<sub>x</sub> emissions emitted shall be recorded and maintained in accordance with Condition 3.4.2.~~

~~[45CSR14, R14-0007, 4.4.7.]~~

#### 4.5. Reporting Requirements

4.5.1. For Subpart Da Reporting for ~~NO<sub>x</sub>, SO<sub>2</sub>, and PM~~ from the [Primary Boilers](#) ~~CFB boilers~~, the permittee shall submit reports to the Director and Administrator semiannually. The reporting periods shall begin on January 1 and July 1 with the end of the reporting periods ending on June 30 and December 31 respectively. These reports shall be postmarked by 30 days following the end of the reporting period. Such reports shall contain the following information.

a. For ~~NO<sub>x</sub>, SO<sub>2</sub>~~, the following information is reported to the Director for each 24-hour period.

i. Calendar date.

ii. The average ~~NO<sub>x</sub>, SO<sub>2</sub>~~ emission rates (lb/MMBtu) for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the emission standards; and, description of corrective actions taken.

~~iii. The percent reduction of the potential combustion concentration of SO<sub>2</sub> for each 30 successive boiler operating days, ending with the last 30 day period in the quarter; reasons for non-compliance with the standard; and, description of corrective actions taken.~~

~~iii.~~ ~~iv.~~ Identification of the boiler operating days for which pollutant or diluent data have not been obtained by an approved method for at least 75 percent of the hours of operation of the facility; justification for not obtaining sufficient data; and description of corrective actions taken.

~~iv.~~ ~~v.~~ Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, or malfunction.

~~v.~~ ~~vi.~~ Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

~~vi.~~ Identification of times when hourly averages have been obtained based on manual sampling methods.

~~vii.~~ ~~viii.~~ Identification of the times when the pollutant concentration exceeded full span of the CEMS.

~~viii.~~ ~~viiii.~~ Description of any modifications to CEMS which could affect the ability of the CEMS to comply with Performance Specifications 2 or 3.

~~ix.~~ ~~ix.~~ If the minimum quantity of emission data as required by 40 CFR §60.49Da (Condition 4.2.1.) is not obtained for any 30 successive boiler operating days, the following information obtained under the requirements of 40 CFR §60.48Da(h) is reported to the Administrator for that 30-day period:

1. The number of hourly averages available for outlet emission rates (no) and inlet emission rates (n<sub>i</sub>) as applicable.

2. The standard deviation of hourly averages for outlet emission rates ( $s_o$ ) and inlet emission rates ( $s_i$ ) as applicable.
  3. The lower confidence limit for the mean outlet emission rate ( $E_o^*$ ) and the upper confidence limit for the mean inlet emission rate ( $E_i^*$ ) as applicable.
  4. The applicable potential combustion concentration.
  5. The ratio of the upper confidence limit for the mean outlet emission rate ( $E_o^*$ ) and the allowable emission rate ( $E_{std}$ ) as applicable.
- x. ~~\*~~ For any periods for which ~~opacity, SO<sub>2</sub>-or~~ NO<sub>x</sub> emissions data are not available, the owner or operator of the affected facility shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.
- xi. ~~xi~~ The responsible official of permitted facility shall submit a signed statement indicating whether:
1. The required CEMS calibration, span, and drift checks or other periodic audits have or have not been performed as specified.
  2. The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance.
  3. The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable.
  4. Compliance with the standards has or has not been achieved during the reporting period.

~~xii. For the purposes of the reports required under 40 CFR §60.7, periods of excess emissions are defined as all 6 minute periods during which the average opacity exceeds the applicable opacity standards under 40 CFR §60.42Da(b). Opacity levels in excess of the applicable opacity standard and the date of such excesses are to be submitted to the Administrator each calendar quarter.~~

**[45CSR14, R14-0007, 4.5.1.; 40 CFR §60.19(d) and §§60.51Da(b)(1), (2), (4) through (9), (c), (f), (h), and (j) (i); 45CSR16]**

~~4.5.2. Compliance with the periodic exception reporting of permit condition 4.5.5. shall be demonstrated by quarterly reports in accordance with 40 CFR §60.7(c).  
[40 CFR §60.7; 45CSR16]~~

- 4.5.2. ~~4.5.3.~~ Excess opacity periods meeting the following conditions may be reported on a quarterly basis unless otherwise required by the Director:
- a. The excess opacity period does not exceed thirty (30) minutes within any twenty-four (24) hour period; and,
  - b. Excess opacity does not exceed forty percent (40%).

**[45CSR§2-9.3.a.]**

~~4.5.3.~~ ~~4.5.4.~~ Except as provided in permit condition 4.5.3. above, the owner or operator shall report to the Director by telephone\*, telefax\*, or e-mail any malfunction of [the Primary Boilers](#) ~~CFB #1 or CFB #2~~ or their associated air pollution control equipment, which results in any excess particulate matter or excess opacity, by the end of the next business day after becoming aware of such condition. The owner or operator shall file a certified written report concerning the malfunction with the Director within thirty (30) days providing the following information:

- a. A detailed explanation of the factors involved or causes of the malfunction;
- b. The date, and time of duration (with starting and ending times) of the period of excess emissions;
- c. An estimate of the mass of excess emissions discharged during the malfunction period;
- d. The maximum opacity measured or observed during the malfunction;
- e. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and
- f. A detailed explanation of the corrective measures or program that will be implemented to prevent a recurrence of the malfunction and a schedule for such implementation.

**[45CSR§2-9.3.b.]** (\*DAQ Telephone No. 304-926-0475, Telefax No. 304-926-0479)

~~4.5.5.—A periodic exception report shall be submitted to the Director, in a manner and at a frequency to be established by the Director.~~

~~**[45CSR§2-8.3.b.]**~~

~~4.5.6.—General reporting requirements for 40 CFR Part 64 (CAM)~~

~~(1) On and after the date specified in 40 CFR §64.7(a) by which the permittee must use monitoring that meets the requirements of 40 CFR 64, the permittee shall submit CAM monitoring reports with the quarterly excess emissions reports. A copy of the CAM monitoring reports generated within the semi-annual monitoring report period shall be included with the semi-annual monitoring report under permit condition 3.5.6. Incorporation by reference within the semi-annual monitoring report is not acceptable.~~

~~(2) A report for monitoring under 40 CFR 64 shall include, at a minimum, the information required under permit condition 3.5.8, and the following information, as applicable:~~

~~(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;~~

~~(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and~~

~~(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR §64.8. Upon completion of a QIP, the permittee shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the~~

~~likelihood of similar levels of excursions or exceedances occurring.~~

~~[40 CFR §64.9(a); 45CSR§30-5.1.e.]~~

~~4.5.7.—You must report each instance in which you did not meet each work practice standard in Table 3 to 40 CFR 63 Subpart DDDDD that apply to you (condition 4.1.10.). These instances are deviations from the work practice standards in 40 CFR 63 Subpart DDDDD. These deviations must be reported according to the requirements in 40 CFR §63.7550 (condition 4.5.8.).~~

~~[40 CFR §63.7540(b); 45CSR34] (Auxiliary Boilers S009L and S009M)~~

~~4.5.8.—You must submit a Compliance report for 40 CFR 63 Subpart DDDDD containing:~~

~~a.—The information in §63.7550(e)(5)(i) through (iv), (xiv) and (xvii), which is:~~

~~(i)—Company and Facility name and address.~~

~~(ii)—Process unit information, emissions limitations, and operating parameter limitations.~~

~~(iii)—Date of report and beginning and ending dates of the reporting period.~~

~~(iv)—The total operating time during the reporting period.~~

~~(xiv)—Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR §63.7540(a)(10). Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown.~~

~~(xvii)—Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.~~

~~b.—If there are no deviations from the requirements for work practice standards in Table 3 to 40 CFR 63 Subpart DDDDD that apply to you (condition 4.1.10.), a statement that there were no deviations from the work practice standards during the reporting period.~~

~~You must submit the report every year according to the requirements in 40 CFR §63.7550(b), which are:~~

~~(3)—Each annual compliance report must cover the applicable 1 year period from January 1 to December 31.~~

~~(4)—Each annual compliance report must be postmarked or submitted no later than January 31.~~

~~(5)—You may submit the compliance reports according to the dates established in permit condition 3.5.6. instead of according to the dates in paragraphs (3) and (4) of this condition.~~

~~You must submit all reports required by Table 9 of 40 CFR 63 Subpart DDDDD electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) You must use the appropriate electronic report in CEDRI for 40 CFR 63 Subpart DDDDD. Instead of using the electronic report in CEDRI for Subpart DDDDD, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. If the~~



~~reporting form specific to Subpart DDDDD is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in 40 CFR §63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI.~~

~~[40 CFR §§63.7550(a), (b)(3)-(5), and (e)(1); 40 CFR §63.7550(h)(3); 45CSR34; 45CSR14, R14-0007, 4.5.7.] (Auxiliary Boilers S009L and S009M)~~

~~4.5.9.—You must submit the reports required under 40 CFR §63.10031. CEMS data shall be submitted using EPA's Emissions Collection and Monitoring Plan System (ECMPS) Client Tool. Other data, including CEMS performance test detail reports, shall be submitted in the file format generated through use of EPA's Electronic Reporting Tool, the Compliance and Emissions Data Reporting Interface, or alternate electronic file format, all as provided for under 40 CFR §63.10031 (conditions 4.5.11., 4.5.12., 4.5.13., 4.5.14.).~~  
~~[40 CFR §63.10021(f); 45CSR34] (CFB Boilers S009J and S009K)~~

~~4.5.10.—You must report each instance in which you did not meet an applicable emissions limit or operating limit in Tables 2 and 3 to 40 CFR 63 Subpart UUUUU or failed to conduct a required tune-up (conditions 4.1.12. through 4.1.17.). These instances are deviations from the requirements of 40 CFR 63 Subpart UUUUU. These deviations must be reported according to 40 CFR §63.10031 (condition 4.5.11.e.).~~  
~~[40 CFR §63.10021(g); 45CSR34] (CFB Boilers S009J and S009K)~~

~~4.5.11.—You must submit a Compliance report for 40 CFR 63 Subpart UUUUU containing:~~

~~a.—Information required in 40 CFR §§63.10031(c)(1) through (4) and (6) through (9), which is:~~

- ~~(1) The information required by the summary report located in 40 CFR §63.10(e)(3)(vi).~~
- ~~(2) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by EPA or your basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure.~~
- ~~(3) Indicate whether you burned new types of fuel during the reporting period. If you did burn new types of fuel you must include the date of the performance test where that fuel was in use.~~
- ~~(4) Include the date of the most recent tune-up for each EGU. The date of the tune-up is the date the tune-up provisions specified in §§63.10021(e)(6) and (7) were completed.~~
- ~~(6) You must report emergency bypass information annually from EGUs with LEE status.~~
- ~~(7) A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during the test, if applicable. If you are conducting stack tests once every 3 years to maintain LEE status, consistent with §63.10006(b), the date of each stack test conducted during the previous 3 years, a comparison of emission level you achieved in each stack test conducted during the previous 3 years to the 50 percent emission limit threshold required in §63.10005(h)(1)(i), and a statement as to whether there have been any operational changes since the last stack test that could increase emissions.~~
- ~~(8) A certification.~~

~~(9) If you have a deviation from any emission limit, work practice standard, or operating limit, you must also submit a brief description of the deviation, the duration of the deviation, emissions point identification, and the cause of the deviation.~~

~~b. If there are no deviations from any emission limitation (emission limit and operating limit) that applies to you and there are no deviations from the requirements for work practice standards in Table 3 to 40 CFR 63 Subpart UUUUU that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system, and operating parameter monitoring systems, were out of control as specified in 40 CFR §63.8(c)(7), a statement that there were no periods during which the CMSs were out of control during the reporting period; and~~

~~c. If you have a deviation from any emission limitation (emission limit and operating limit) or work practice standard during the reporting period, the report must contain the information in 40 CFR §63.10031(d) (section d. of this condition). If there were periods during which the CMSs, including continuous emissions monitoring systems and continuous parameter monitoring systems, were out of control, as specified in 40 CFR §63.8(c)(7), the report must contain the information in 40 CFR §63.10031(e) (condition 4.5.13.);~~

~~d. For each excess emissions occurring at an affected source where you are using a CMS to comply with that emission limit or operating limit, you must include the information required in 40 CFR §63.10(e)(3)(v) in the compliance report specified in section a. of this condition.~~

~~e. If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded.~~

~~You must submit the report semiannually according to the requirements in 40 CFR §60.10031(b) (condition 4.5.12.);~~

~~[40 CFR §63.10031(a), Table 8, Item #1; 40 CFR §§63.10031(e)(1) through (4) and (6) through (9); 40 CFR §63.10031(d); 40 CFR §63.10031(g); 40 CFR §63.10021(i); 45CSR34; 45CSR14, R14-0007, 4.5.3.] (CFB Boilers S009J and S009K)~~

~~4.5.12. Unless the Administrator has approved a different schedule for submission of reports under 40 CFR §63.10(a), you must submit each report by the date in Table 8 to 40 CFR 63 Subpart UUUUU and according to the requirements in paragraphs (1) through (5) of this condition.~~

~~(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in 40 CFR §63.9984 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for your source in 40 CFR §63.9984.~~

~~(2) The first compliance report must be postmarked or submitted electronically no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in 40 CFR §63.9984.~~

~~(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.~~

- ~~(4) Each subsequent compliance report must be postmarked or submitted electronically no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.~~
- ~~(5) You may submit the first and subsequent compliance reports according to the dates in permit condition 3.5.6. instead of according to the dates in paragraphs (1) through (4) of this condition.~~

~~[40 CFR §§63.10031(b)(1) through (5); 45CSR34] (CFB Boilers S009J and S009K)~~

~~4.5.13. You must report all deviations as defined in 40 CFR 63 Subpart UUUUU in the semiannual monitoring report required by condition 3.5.6. If an affected source submits a compliance report pursuant to Table 8 to 40 CFR 63 Subpart UUUUU (condition 4.5.11.) along with, or as part of, the semiannual monitoring report required by condition 3.5.6., and the compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice requirement in 40 CFR 63 Subpart UUUUU, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. Submission of a compliance report does not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.~~

~~[40 CFR §63.10031(e); 45CSR34] (CFB Boilers S009J and S009K)~~

~~4.5.14. As of July 1, 2018, and within 60 days after the date of completing each performance test, you must submit the results of the performance tests required by 40 CFR 63 Subpart UUUUU according to 40 CFR §63.10031(f).~~

- ~~(1) On or after July 1, 2018, within 60 days after the date of completing each CEMS (SO<sub>2</sub>, PM, HCl, HF, and Hg) performance evaluation test, as defined in 40 CFR §63.2 and required by 40 CFR 63 Subpart UUUUU, you must submit the relative accuracy test audit (RATA) data (or, for PM CEMS, RCA and RRA data) required by 40 CFR 63 Subpart UUUUU according to 40 CFR §63.10031(f)(1).~~
- ~~(3) Reports for an SO<sub>2</sub> CEMS, a Hg CEMS or sorbent trap monitoring system, an HCl or HF CEMS, and any supporting monitors for such systems (such as a diluent or moisture monitor) shall be submitted using the ECMPMS Client Tool, as provided for in Appendices A and B to 40 CFR 63 Subpart UUUUU and 40 CFR §63.10021(f) (condition 4.5.9).~~
- ~~(4) On or after July 1, 2018, submit the compliance reports required under paragraphs (c) and (d) of 40 CFR §63.10031 (conditions 4.5.11.a.(1) through (4), and 4.5.11.d., respectively) and the notification of compliance status required under 40 CFR §63.10030(e) electronically according to 40 CFR §63.10031(f)(4).~~
- ~~(5) All reports required by 40 CFR 63 Subpart UUUUU not subject to the requirements in paragraphs (f) introductory text and (f)(1) through (4) of 40 CFR §63.10031 (sub conditions (1), (3), and (4) of this condition) must be sent to the Administrator at the appropriate address listed in 40 CFR §63.13. If acceptable to both the Administrator and the owner or operator of a source, these reports may be submitted on electronic media. The Administrator retains the right to require submittal of reports subject to paragraphs (f) introductory text and (f)(1), (2), and (3) of 40 CFR §63.10031 in paper format.~~

~~[40 CFR §§63.10031(f), 63.10031(f)(1), 63.10031(f)(3), 63.10031(f)(4), 63.10031(f)(5); 45CSR34; 45CSR14, R14-0007, 4.3.1., 4.3.2., 4.5.5., and 4.5.6.] (CFB Boilers S009J and S009K)~~

~~4.5.15. You must submit all of the notifications in 40 CFR §63.7(b) and §63.7(e), and §63.8 (e), by the dates specified.  
[40 CFR §§63.10030(a); 45CSR34] (CFB Boilers S009J and S009K)~~

#### **4.6. Compliance Plan**

4.6.1. None.

**5.0 Auxiliary Boilers (S009L, S009M) and Boilers #1 & #2 (Backup Steam Generators S009N, S009O) Fuel, Limestone, and Ash Handling [emission point ID(s): STACK1 Vent 1 through Vent 11, and Fugitive Emission 1 through Fugitive Emission 16]**

**5.1. Limitations and Standards**

5.1.1. The following requirements and limitations apply to each of the auxiliary boilers (ID S009L and S009M) using natural gas with the ability to use ultra-low sulfur diesel (ULSD) as a back-up supply source. ~~Coal/coal refuse and limestone 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:~~

	Type/Identity of Particulate Matter Control Equipment	Particulate Emission Limitation for Control Equipment Discharge lb/hr
<del>Coal/Gob Receiving Hoppers (Truck)</del>	<del>Enclosure and Water/Chemical Dust Suppression System</del>	
<del>Coal/Gob Receiving Hopper (Emergency Use)</del>	<del>Minimize Drop Height</del>	
<del>Elevating Transfer Conveyor No. 1, Two Fuel Silos, Reversible Silo Feed Conveyor, Hopper Transfer Conveyor, and Transfer Points</del>	<del>Enclosure and Evacuation to Baghouse</del>	<del>0.0002</del>
<del>Elevating (Tripper) Conveyor No. 2 (top), Two Fuel Day Bins, and Transfer Points</del>	<del>Enclosure and Evacuation to Baghouse</del>	<del>0.0002</del>
<del>Mill Collecting Conveyor, Elevating Conveyor No. 2 base</del>	<del>Enclosure and Evacuation to Baghouse</del>	<del>0.0002</del>
<del>Two Coal/Gob Crushers (Grinding Mill, Hammer Mill), Emergency Fuel Feed Conveyor, Weigh Belt Conveyor</del>	<del>Enclosure and Evacuation to Baghouse</del>	<del>0.099</del>
<del>One 1,160 Ton Limestone Storage Silo</del>	<del>Baghouse</del>	<del>0.014</del>
<del>Limestone Truck Unloading Hopper</del>	<del>Enclosure and Evacuation to Baghouse</del>	<del>0.027</del>
<del>One Limestone Day Bin</del>	<del>Baghouse</del>	<del>0.005</del>

- a. Carbon monoxide (CO) emissions emitted to the atmosphere from the unit shall not exceed a rate of 0.04 lb/MMBtu when firing with natural gas and 0.095 lb/MMBtu when firing on ULSD, on a 3-hour average basis. Compliance with this limit shall be satisfied by complying with items f. and h. of this Condition unless ordered by the Director to conduct a compliance demonstration.
- b. Nitrogen oxides (NO<sub>x</sub>) emissions (expressed as NO<sub>2</sub>) emitted to the atmosphere from each unit while firing on natural gas shall not exceed a rate of 0.11 lb/MMBtu on a thirty-day rolling average basis. When ULSD is consumed by the unit, NO<sub>x</sub> emissions from each unit shall not exceed a rate of 0.18 lb/MMBtu on a 30-day rolling average basis. These limitations apply at all times including periods of start-up, shutdown, or malfunction. Compliance with limit shall be conducted using the weight-average equation in Condition 5.4.2. using valid CEMS data in accordance with Condition 5.2.3. which includes a 30-day rolling average. Compliance with the streamlined NO<sub>x</sub> limits assures compliance with 40 CFR §60.44b(a)(1)(ii).

- c. [Sulfur Dioxide \(SO<sub>2</sub>\) emissions emitted to the atmosphere from the unit while operating using ULSD shall not exceed a rate of 0.002 lb/MMBtu. No person shall cause, suffer, allow or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of 512 lb/hr consuming natural gas or 468.8 lb/hr consuming ULSD \(each boiler\). Compliance with this limitation shall be satisfied by compliance with the sulfur and fuel type restriction in Condition 5.1.4.](#)
- d. [Particulate matter \(PM\) and particulate matter less than 10 microns \(PM<sub>10</sub>\) emitted to the atmosphere from the unit while operating using ULSD shall not exceed a rate of 0.03 lb/MMBtu on a 6-hour average. Compliance with the streamlined PM limit of 0.03 lb/MMBtu while using ULSD assures compliance with the 45CSR §2-4.1.b. limit of 0.09 lb/MMBtu.](#)
- e. [At times when these boilers are operated solely with pipeline quality natural gas, this operating mode of the unit\(s\) satisfies compliance with the limitations of 45 CSR §2-4.1.b., and 45 CSR §10-3.3.f.](#)
- f. [The permittee shall conduct initial tune up of these boilers within 30 days of restart and subsequent tune-up within no later than 61 months from the previous tune-up of the unit. Such tune-ups shall be conducted in accordance with Condition 5.1.5. For affected boilers that switch fuels or make a physical change to the boiler that results in the applicability of a different subcategory within subpart JJJJJJ or the boiler becoming subject to subpart JJJJJJ, you must demonstrate compliance within 180 days of the effective date of the fuel switch or the physical change. Notification of such changes must be submitted according to §63.11225\(g\).](#)
- g. [Each boiler shall be modified with a maximum design heat input not to exceed the design capacity listed in the Emission Units Table \(Section 1.1\) of this permit. Compliance with this limit shall be satisfied by limiting annual total heat input for each of these boilers S009L and S009M to 1,401,600 MMBtu, measured as a rolling 12-month rolling total basis. Of this 1,401,600 MMBtu, only 351,600 MMBtu of energy input shall be due to firing the unit using ULSD fuel.](#)
- h. [Each of these boilers shall be equipped and operated with an oxygen trim system that maintains an optimum air-to-fuel ratio. An oxygen trim system means a system of monitors that is used to maintain excess air at the desired level in a combustion device over its operating load range. A typical system consists of a flue gas oxygen and/or carbon monoxide monitor that automatically provides a feedback signal to the combustion air controller or draft controller. You may delay the burner inspection specified in paragraph \(b\)\(1\) of §63.11223\(c\) and inspection of the system controlling the air-to-fuel ratio specified in paragraph \(b\)\(3\) of §63.11223\(c\) until the next scheduled unit shutdown, but you must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every 5 years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up.](#)

[\[45CSR14, R14-0007, 5.1.1.; 45CSR§2-4.1.b., §2-8.4.b., §2A-3.1.a., §10-3.3.f., §10A-3.1.b.; 45CSR16; 40 CFR §§60.44b\(a\)\(1\)\(ii\), \(h\), \(i\); 45CSR34; 40 CFR §63.11210\(i\), §63.11223\(c\), and §63.11237\]](#)

- 5.1.2. [The following requirements and limitation apply to each of these boilers identified as ID S009N and S009O upon initial startup. ~~Visible Emissions from coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal \(Vents 1-5\) shall not exceed twenty \(20\) percent opacity except during periods of startup, shutdown, or malfunction.~~](#)

- a. Particulate matter (PM) filterable emissions emitted to the atmosphere from the unit while operating using ULSD unit shall not exceed 0.023 lb per MMBtu of heat input on a 6-hour average basis. Compliance with the streamlined PM limit of 0.023 lb per MMBtu while using ULSD assures compliance with the 45CSR §2-4.1.b.limit of 0.09 lb per MMBtu.
- b. Nitrogen oxides (NO<sub>x</sub>) emissions (expressed as NO<sub>2</sub>) emitted to the atmosphere from each unit while firing on natural gas shall not exceed a rate of 0.036 lb/MMBtu on a thirty-day (30) rolling average basis. When firing with ULSD, NO<sub>x</sub> emissions from each unit shall not exceed a rate of 0.10 lb/MMBtu on a thirty-day rolling average basis. These limitations apply at all times including periods of start-up, shutdown, or malfunction. Compliance with these limits shall be conducted using the weight-average equation in Condition 5.4.2. using valid CEMS data in accordance with Condition 5.2.3. which includes 30-day rolling average.
- c. Carbon monoxide (CO) emissions emitted to the atmosphere from the unit shall not exceed a rate of 0.078 lb/MMBtu on a 3-hour average basis. Compliance with this limit shall be satisfied by complying with items f. and h. of this Condition unless ordered by the Director to conduct a compliance demonstration.
- d. Sulfur Dioxide (SO<sub>2</sub>) emissions emitted to the atmosphere from the unit while operating using ULSD shall not exceed a rate of 0.002 lb/MMBtu. The sulfur emission limit in this condition and sulfur restriction in Condition 5.1.4. apply at all times including periods of startup, shutdown, and malfunctions. No person shall cause, suffer, allow or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of 320 lb/hr consuming natural gas or 306.53 lb/hr consuming ULSD (each boiler). Compliance with these limitations shall be satisfied by complying with the sulfur limit and fuel type restriction in Condition 5.1.4.
- e. The permittee shall minimize each of these boiler's startup and shutdown periods and conduct startups and shutdowns according to the manufacturer's recommended procedures. If manufacturer's recommended procedures are not available, the permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available.
- f. The permittee shall conduct initial tune up of these boilers no later than 25 months after initial start of the unit and subsequent tune-up no later than 25 months from the previous tune-up of the unit. Such tune-ups shall be conducted in accordance with Condition 5.1.5. For affected boilers that switch fuels or make a physical change to the boiler that results in the applicability of a different subcategory within subpart JJJJJJ or the boiler becoming subject to subpart JJJJJJ, you must demonstrate compliance within 180 days of the effective date of the fuel switch or the physical change. Notification of such changes must be submitted according to §63.11225(g).
- g. Each boiler shall be designed or constructed with a maximum design heat input not to exceed the design capacity listed in Emission Units Table (Section 1.1) of this permit. The permittee shall limit the annual heat input to each boiler (S009N and S009O) to no more than 646,852 MMBtu per year, measured on a 12-month rolling total basis. Of this 646,852 MMBtu of heat input, only 229,896 MMBtu of heat input per 12-month rolling period shall be due to firing each unit using ULSD.
- h. At any time after initial start of these boilers (S009N or S009O) should either one of these emission units be removed from the facility and later returned to the permitted facility, the permittee shall perform a

tune-up of the unit that returns within 30 days after re-commencing operations in accordance with Condition 5.1.5.

[45CSR14, R14-0007, 5.1.2.; 45CSR§2-4.1.b., §10-3.3.f.; 45CSR16; 40 CFR §§60.42c(d), (h), (h)(1), and (i); 45CSR34; 40 CFR §63.11201(b), §§63.11210(g) and (i), §63.11223(b)(7), and Table 2 Item 1 to Subpart JJJJJ of Part 63]

~~[40 CFR §§60.254(a) and 60.11(e); 45CSR16]~~

- 5.1.3. Emissions from Stack 1 shall not exceed the following limits: ~~At all times, including periods of startup, shutdown, and malfunction, any affected facility [coal processing and conveying equipment as defined in 40 CFR 60 Subpart Y] including associated air pollution control equipment shall, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions. Determination that acceptable operating and maintenance procedures are being used, will be based on information available to the Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.~~  
~~[40 CFR §60.11(d); 45CSR16]~~

- a. Emissions of NO<sub>x</sub> shall not exceed 450.96 tons per year based on 12-month rolling total.
- b. Emissions of CO shall not exceed 213.66 tons per year based on 12-month rolling total.
- c. Emissions of particulate matter shall not exceed 15.71 tons per year based on 12-month rolling total.
- d. Emissions of particulate matter less than 10 microns shall not exceed 37.59 tons per year based on 12-month rolling total.
- e. Emissions of particulate matter less than 2.5 microns shall not exceed 37.59 tons per year based on 12-month rolling total.
- f. Emission of sulfur dioxide shall not exceed 14.89 tons per year based on 12-month rolling total.
- g. Emissions of volatile organic compounds (VOCs) shall not exceed 18.14 tons per year based on 12 month rolling total.
- h. Visible emissions shall not exhibit greater than ten (10) percent opacity based on a six-minute block average from Stack 1. These standards shall apply at all times except during periods of startup, shutdown, or malfunction. Demonstration or verification of compliance of this standard is only required when any of these units is fired with any combination of ULSD: S009L, S009M, S009N, S009O. Compliance with this streamlined opacity limit will ensure compliance with 40 CFR §§60.43b(f) & (g) and §§60.43c(c) & (d).
- i. Combined emission of Hazardous Air Pollutants shall not exceed 6.47 tons per year based on 12 month rolling total.

[45CSR14, R14-0007, 5.1.3.; 45CSR§§2-3.1., §2-9.1.; 45CSR16; 40 CFR §§60.43b(f) & (g), §§60.43c(c) & (d)]



5.1.4. The emission units (S009L, S009M, S009N, & S009O) permitted under this section are permitted to combust either natural gas with a total sulfur content of 2 grains per 100 scf (gaseous fuel) or ULSD (liquid fuel) that has less than or equal to 15 parts per million (ppm) of sulfur. This sulfur restriction meets the sulfur limitation of 40 CFR 60.42c(d); and the definitions of “very low sulfur oil” in 40 CFR §60.41b and “ultra-low-sulfur liquid fuel” in 40 CFR §63.11237.

~~—Ash transfer, storage and loading 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:~~

[45CSR14, R14-0007, 5.1.4.; 45CSR16; 40 CFR §60.41b, §60.42b(k)(2), §60.43b(h)(5); §60.42c(d); 45CSR34; 40 CFR §63.11237]

	Type/Identity of Particulate Matter Control Equipment	Particulate Emission Limitation for Control Equipment Discharge lb/hr
<del>Pneumatic System for Collected Flyash and Bottom Ash Handling, One 1300 Ton Ash Silo, Vacuum Blowers</del>	<del>Enclosure and Evacuation to Baghouse</del>	<del>0.028</del>
<del>Fully Sealed Mechanical System for Bottom Ash/Cooler Rejects, One 85 Ton Bottom Ash Silo</del>	<del>Baghouse</del>	<del>0.028</del>
<del>Flyash Transport (Silo Vent)</del>	<del>Baghouse</del>	<del>0.334</del>
<del>Wet Ash Loadout (Flyash and Bottom Ash)</del>	<del>Rotary dustless (wet) unloaders shall thoroughly wet ash prior to loading and handling. Ash loadout(s) shall be fully enclosed and evacuated to an ash silo baghouse during all ash loading</del>	

~~[45CSR14, R14-0007, 5.1.2.]~~

5.1.5. The permittee shall conduct tune-ups of each boiler in accordance with the applicable requirements of 40 CFR 63, Subpart JJJJJ. If the unit is not operating on the required date for a tune-up, then the tune-up must be conducted within 30 calendar days of re-starting of the unit. These tune-ups shall consist of the following:

- a. The tune-up must be conducted every 5 years for Emission Unit IDs S009L and S009M and biennially for Emission Unit IDs S009N and S009O while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.
- b. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).
- c. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- d. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection);

- e. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. and
- f. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[45CSR14, R14-0007, 5.1.5.; 45CSR34; 40 CFR §63.11201, §§63.11223(a), (b), (b)(1) - (5), (b)(7), (c) and Table 2 to Part 63 Subpart JJJJJ]

5.1.6. **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 1.1 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.  
[45CSR14, R14-0007, 5.1.6.; 45CSR§13-5.10.]

5.1.7. The addition of sulfur oxides to a combustion unit exit gas stream for the purpose of improving emissions control equipment is prohibited unless written approval for such addition is provided by the Director.  
[45CSR§2-4.4.]

5.1.8. Any fuel burning unit(s) including associated air pollution control equipment, shall at all times, including periods of start-up, shutdowns, and malfunctions, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions.  
[45CSR§2-9.2.; 45CSR16; 40 CFR §60.11(d)]

5.1.9. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.  
[45CSR34; 40 CFR §63.11205(a)]

## **5.2. Monitoring Requirements**

5.2.1. For each operating day, the permittee shall record the amount of fuel by type (natural gas and fuel oil) combusted by each emission units (S009L, S009M, S009N, and S009O) and shall calculate the 12-month rolling total of combined heat input and annual capacity factor for each fuel for each emission unit within fifteen (15) days after the end of each month. Such records shall be maintained in accordance with Condition 3.4.2. of this permit. ~~Reserved.~~  
[45CSR14, R14-0007, 5.2.1.; 45CSR§2-8.3.c., §2A-7.1.a.1. & a.2.; 45CSR16; 40 CFR §60.49b(d)(1) and §60.48c(g)(2)]

5.2.2. *Continuous Monitoring Requirements:* The permittee shall install, calibrate, maintain and operate continuous emission monitoring system (CEMS), continuous opacity monitor (COMS) and a diluent monitor to measure and record the emissions of NO<sub>x</sub>, visible emissions, and other parameters to determine compliance for the

auxiliary boilers identified as S009L and S009M and boilers S009N and S009O venting through Stack 1 in a manner sufficient to demonstrate continuous compliance with the NO<sub>x</sub> emission limits in Conditions 5.1.1.b. and 5.1.2.b.; and the opacity standard of Condition 5.1.3. Such records of this monitoring system, data collected, and calculated values shall be maintained in accordance with Condition 3.4.2. These systems shall be installed, calibrated, properly functioning, and certified in accordance with the following requirements:

- a. NO<sub>x</sub> CEMS: The NO<sub>x</sub> CEMS shall be certified, operated, and maintained in accordance with the requirements of 40 CFR 60.
  - i. For use of NO<sub>x</sub> CEMS used to demonstrate compliance for the auxiliary boilers (S009L and S009M), the permittee shall also meet the requirements of 40 CFR §60.49b. Data reported to meet the requirements of 40 CFR §60.49b for the auxiliary boilers shall not include data substituted using the missing data procedures in Subpart D of Part 75 of Chapter 40, nor shall the data have been bias adjusted according to the procedures of 40 CFR 75.
- b. Diluent Monitor: The oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) content of the flue gas shall be monitored at the location where NO<sub>x</sub> emissions are monitored. Each monitor shall comply with the performance and quality assurance requirements of 40 CFR 60.
  - i. If the permittee use an oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) CEMS to convert measured pollutant concentrations to the units of emissions limits in Conditions 5.1.1.b. and 5.1.2.b., the O<sub>2</sub> or CO<sub>2</sub> concentrations shall be monitored at a location that represents emissions to the atmosphere, i.e., at the outlet of the emission units, downstream of all emission control devices. The permittee must install, certify, maintain, and operate the CEMS according to 40 CFR 75 or 40 CFR 60. Use only quality assured O<sub>2</sub> or CO<sub>2</sub> data in the emissions calculations; do not use Part 75 substitute data values.
- c. Fuel Flow Monitor: The fuel flowmeters used to continuously monitor and record the flow rate of natural gas or ULSD combusted by all emissions covered under this section of this permit shall have the accuracy of 2.0 percent of the upper range value (i.e. maximum fuel flow rate measurable by the flowmeter) across the range of fuel flow rate to be measured at the unit. The measured flowrate data must be reduced in hourly averages. Flowmeter accuracy may be determined under Section 2.1.5.1 of Appendix D to Part 75 Optional SO<sub>2</sub> Emissions Data Protocol for Gas-Fired and Oil-Fired Units of Chapter 40 for initial certification in any of the following ways (as applicable): by design (orifice, nozzle, and venturi-type flowmeters, only) or by measurement under laboratory conditions; by the manufacturer; by an independent laboratory; or by the owner or operator. Flowmeter accuracy may also be determined under Section 2.1.5.2 of Appendix D to Part 75 Optional SO<sub>2</sub> Emissions Data Protocol for Gas-Fired and Oil-Fired Units of Chapter 40 by in-line comparison against a reference flowmeter. Alternatively, an orifice, nozzle or venturi flowmeter may be certified if: (a) the primary element (for example, the orifice plate) meets the design criteria specified in American Gas Association Report No. 3; (b) the primary element passes a visual inspection; and (c) the pressure, temperature, and differential pressure transmitters are calibrated with standards traceable to the National Institute of Standards and Technology (NIST). Fuel flowmeter accuracy testing must be performed once every four fuel flowmeter QA operating quarters thereafter, unless the flowmeter qualifies for an extension of the test deadline as outlined in Section 2.1.6. Quality Assurance of Appendix D of Part 75 to Chapter 40.
- d. COMS: Exhaust gas opacity from Stack 1 shall be monitored using a continuous opacity monitoring system for the purpose of demonstrating compliance with Condition 5.1.3. The permittee shall install

calibrate, maintain, and operate the COMS in accordance with Performance Specification (PS) 1 in 40 CFR Part 60, Appendix B. The span value of the opacity COMS shall be between 60 and 80 percent. Such system shall record the output of the system. The permittee shall reduce all data to 6-minute averages. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period.

In lieu of COMS, as specified in the above, for determining compliance with the opacity standard in 5.1.3.h., the permittee may submit a written site-specific-monitoring plan to the Director. Once the plan is approved by the Director, the permittee must fully implement the plan prior to within 45 days of discontinuing the use of the COMS for compliance with the standard in Condition 5.1.3.h. Once the plan is being implemented, the permittee is no longer required to report opacity exceedance or COMS downtime under Condition 5.5.3. Instead, the permittee shall submit deviations of the plan and opacity exceedances in accordance with Condition 5.5.4.

- e. For NO<sub>x</sub> and CO<sub>2</sub> or O<sub>2</sub> direct measurement only; when NO<sub>x</sub> emission data are not obtained because of CEMS or alternative monitoring system breakdown, repairs, calibration checks, and zero and span adjustment, emission data will be obtained by using standby monitoring systems, Method 7 or 7A of Appendix A of Part 60 to Chapter 40 of the Code of Federal Regulations, or other approved reference methods to provided emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of the 30 successive steam generating unit operating days.
- f. The permittee shall maintain records of all performance certifications/evaluations, drift checks, QA procedures conducted, calibrations performed, RATAs performed, and maintenance conducted of the above systems in accordance with Condition 3.4.2.

**[45CSR14, R14-0007, 5.2.2.; 45CSR§§2-8.2.a. and a.1.; 45CSR§§2A-6.1. and 6.3.; 45CSR16; 40 CFR §§60.13(d)(1), (d)(2), (g), (h)(1), §§60.48b(a), (b), (f), (j)(2) and (l), §60.49b(g)(10), §§60.47c(a), (b) and (f)(3)]**

5.2.3. Regarding the determination of valid hourly emission data used to determinate compliance with the 30-day rolling average limits in Condition 5.1.1., and 5.1.2., the following criteria shall be used to evaluate the CEMs data as required to be collected in Condition 5.2.2. to determine if the data is valid data:

- a. Except as noted in item c. of this condition, for a full operating hour (any clock hour with 60 minutes of unit operation), of the unit at least four valid data point are required to calculate the hourly average (i.e. one data point in each of the 15-minute quadrants of the hour).
- b. Except as noted in item c., for a partial operating hour (any clock hour with less than 60 minutes of unit operation), of the unit, at least one valid data point in each 15-minute quadrant of the hour in which the unit operates is required to calculate the hourly average.
- c. For any operating hour in which required maintenance or quality-assurance activities are performed of the monitoring system is not valid.
- i. If the unit operates in two or more quadrants of the hour, a minimum of two valid data points, separated by at least 15 minutes, is required to calculate the hourly average: or

- ii. If the unit operates in only one quadrant of the hour, at least one valid data point is required to calculate the hourly average.
- d. If a daily calibration error check is failed during any operating hour, all data for that hour shall be invalidated, unless a subsequent calibration error test is passed in the same hour and the requirements of item c. of this condition are met, based solely on valid data recorded after the successful calibration.
- e. For each full or partial operating hour, all valid data points shall be used to calculate the hourly average.
- f. Except as provided under item g. of this condition, data recorded during periods of continuous monitoring system breakdown, repair, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph.
- g. The permittee complying with the requirements of 40 CFR §60.7(f)(1) or (2) must include any data recorded during periods of monitor breakdown or malfunction in the data averages.
- h. Either arithmetic or integrated averaging of all data may be used to calculate the hourly averages. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O<sub>2</sub> or ng/J of pollutant).

[45CSR14, R14-0007, 5.2.3.; 45CSR16; 40 CFR §§60.13(h)(2)(i) – (vii) and (ix)]

### 5.3. Testing Requirements

- 5.3.1. To determine compliance with the opacity limits under Condition 5.1.3. (40 CFR §60.43b & 60.43c(c) and the NO<sub>x</sub> limit under Condition 5.1.1.b. (40 CFR 60.44b), the permittee shall conduct an initial performance test as required under 40 CFR §60.8, using the following procedures and reference methods: ~~In order to demonstrate compliance with the opacity limitation in condition 5.1.2., the permittee shall conduct visible emission evaluations as follows for “affected facility” Baghouse Vents (Vents 1-5):~~
  - a. Using a continuous system for monitoring NO<sub>x</sub> under 40 CFR §60.48(b) to determine NO<sub>x</sub> emission for compliance with the emission limits for NO<sub>x</sub> required under 40 CFR §60.44b. For the initial compliance test, NO<sub>x</sub> from each steam generating unit is monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the NO<sub>x</sub> emission standards under Condition 5.1.1.b. (40 CFR §60.44b) for each unit. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period. ~~A visible emissions evaluation shall be conducted for each affected facility at least once every consecutive 12 month period in accordance with 40 CFR Part 60 Appendix A, Method 9, or as provided in 40 CFR §60.11. This annual evaluation shall consist of a minimum of 24 consecutive observations for each affected facility.~~
  - b. Method 9 of appendix A to 40 CFR 60 is used for determining the opacity of stack emissions. ~~Each emissions unit with a visible emissions limit contained in this permit section shall be observed visually by a trained Method 22 observer at least each calendar week during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions. 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 Part 60 Appendix A, Method 9 shall be conducted as soon as practicable, but no later than one (1) month from the time of the observation. A Method 9 evaluation shall not be required under this sub-section (5.3.1.b.) if the visible emissions condition is~~

~~corrected within 24 hours; the emissions unit is operating at normal operating conditions; and, the cause and corrective measures taken are recorded.~~

- c. ~~In accordance with the requirements outlined in Condition 3.3.1. of this permit. 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 shall be performed for that unit at least once every consecutive 14-day period in accordance with 40 CFR Part 60 Appendix A, Method 9. 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 of sub-section 5.3.1.b. above, in lieu of those established in this condition.~~

To be included with the testing protocol as required under Condition 3.3.1., the permittee shall develop a testing plan to conduct the required 30-day NO<sub>x</sub> compliance test for each of the auxiliary boilers. This plan should address accounting for emissions from other emission units at the facility while conducting the compliance test. Records of all testing shall be maintained in accordance with Condition 3.4.2.

[45CSR14, R14-0007, 5.3.1.; 45CSR16; 40 CFR §§60.46b(e) and (e)(1), §60.46b(d)(7) and §60.45c(a)(8)]

~~[45CSR§30-5.1.e.]~~

~~Note: The term “Affected Facility” used in this permit means any of the following (NSPS or non-NSPS):~~

- ~~(1) Coal Processing and conveying equipment (including breakers and crushers)~~
- ~~(2) Coal Storage Systems.~~
- ~~(3) Coal Transfer and Loading Systems.~~

- 5.3.2. Following the date on which the initial performance test is completed or required to be completed under Condition 5.3.1. and 40 CFR §60.8 for the Auxiliary Boilers, whichever date comes first, the permittee shall upon request determine compliance with the NO<sub>x</sub> limits (standards) in Condition 5.1.1.b. (40 CFR §60.44b) through the use of a 30-day performance test. During periods when performance tests are not requested, NO<sub>x</sub> emissions data collected pursuant to 40 CFR §60.48b(g)(1) or 40 CFR §60.48b(g)(2) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NO<sub>x</sub> emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NO<sub>x</sub> emission data for the preceding 30 steam generating unit operating days.

[45CSR14, R14-0007, 5.3.2.; 45CSR16; 40 CFR §60.46b(e)(4)]

- 5.3.3. The owner or operator shall conduct an initial test within 180 days after the issuance date of this permit modification (i.e., MM05) to determine the compliance of the Auxiliary Boilers 1 and 2 and the backup steam generator Boilers #1 and #2 with the particulate matter mass emission limitations of 45CSR2. Such tests shall be conducted in accordance with the appropriate method set forth in 45CSR2 Appendix – Compliance Test Procedures for 45CSR2, or other equivalent EPA approved method approved by the Director. Subsequent testing shall be once every three years.

[45CSR§2-8.1., 45CSR§2A-5.2.]

#### 5.4. Recordkeeping Requirements

- 5.4.1. The permittee shall obtain and maintain fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from each fuel supplier that certify that the oil meets the definition of ULSD (i.e.,

Very Low Sulfur Oil) and gaseous fuel meets the definition of natural gas as defined in 40 CFR §60.41b or 40 CFR §60.41c and sulfur content meet the applicable sulfur limit in Condition 5.1.4. These records shall represent all the fuel combusted at the facility. The records shall include, but not be limited to, the date and time of start-up and shutdown for each fuel type, and the quantity of fuel consumed on a monthly basis and for ULSD a BTU analysis for each shipment. Such records shall include the following information: ~~A record of each visible emissions observation shall be maintained on site, including any data required by 40 CFR Part 60 Appendix A, Method 9. 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. Records shall state 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.~~

- a. For the natural gas supplier:
  - i. The name of the natural gas supplier:
  - ii. According to 40 CFR 75 Appendix D, fuel sampling/analysis or the current Tariff Sheet or contact that demonstrates the maximum sulfur in fuel limit was not exceeded.
- b. For the oil supplier:
  - i. The name of the oil supplier:
  - ii. A statement from the ULSD supplier that the ULSD complies with the specifications under the definition of distillate oil in 40 CFR §60.41b and 40 CFR §60.41c; and
  - iii. The sulfur content or maximum sulfur content of the oil in terms parts per million.

[45CSR14, R14-0007, 5.4.1.; 45CSR§2-8.3.c., §§2A-7.1.a.1. & a.2.; 45CSR16; 40 CFR §60.42b(j), §60.49b(r)(1); §60.44c(h); §60.45c(d) and §60.48c(f)(1)]

~~[45CSR§30-5.1.e.]~~

- 5.4.2. For compliance with the NO<sub>x</sub> Heat Input limits for the Primary Boilers identified as S009J and S009K; Auxiliary Boilers identified S009L and S009M; and Boilers identified S009N and S009O (Limits in Conditions 4.1.5.a., 5.1.1, and 5.1.2., the permittee shall determine the Weight Average NO<sub>x</sub> Limit for each operation day in accordance with the following:

$$NO_x \text{ Weighted Avg} = \frac{[(EL_{PB} \times HI_{PB}) + (EL_{Auxg} \times HI_{Auxg}) + (EL_{Auxo} \times HI_{Auxo}) + (EL_{RBg} \times HI_{RBg}) + (EL_{RBo} \times HI_{RBo})]}{HI_{total}}$$

Where:

NO<sub>x</sub> Weight Avg = Weighted Average of the NO<sub>x</sub> limits (expressed as NO<sub>2</sub>) based on Heat Input from the respective type of boiler and fuel utilized, in terms of lb of NO<sub>x</sub> per MMBtu;

EL<sub>PB</sub> = Appropriate emission limit from Condition 4.1.5.a. for combustion of natural gas, lb/MMBtu.

EL<sub>Auxg</sub> = Appropriate emission limit from Condition 5.1.1. for combustion of natural gas, lb/MMBtu.

EL<sub>Auxo</sub> = Appropriate emission limit from Condition 5.1.1. for combustion of ULSD, lb/MMBtu.

EL<sub>RBg</sub> = Appropriate emission limit from Condition 5.1.2. for combustion of natural gas, lb/MMBtu.

EL<sub>RB0</sub> = Appropriate emission limit from Condition 5.1.2. for combustion of ULSD, lb/MMBtu.

HI<sub>PB</sub> = Combined Heat Input from the Primary Boilers (S009J, S009K) firing on natural gas, in terms of MMBtu/hr. This value shall be determined using actual amount of fuel metered to the primary boilers in the respective time period and a gross calorific value of 1,050 Btu per standard cubic feet for natural gas.

HI<sub>Auxg</sub> = Combined Heat Input from the Auxiliary Boilers (S009L, S009M) firing on natural gas, in terms of MMBtu/hr. This value shall be determined using actual amount of fuel metered to the auxiliary boilers in the respective time period and a gross calorific value of 1,050 Btu per standard cubic feet for natural gas.

HI<sub>Auxo</sub> = Combined Heat Input from the Auxiliary Boilers (S009L, S009M) firing on ULSD, in terms of MMBtu/hr. This value shall be determined using actual amount of fuel metered to the auxiliary boilers in the respective time period and a gross calorific value of 140,000 Btu per gallon for ULSD.

HI<sub>RBg</sub> = Combined Heat Input from the Boilers S009N and S009O firing on natural gas, in terms of MMBtu/hr. This value shall be determined using actual amount of fuel metered to the boilers in the respective time period and a gross calorific value of 1,050 Btu per standard cubic feet for natural gas.

HI<sub>RB0</sub> = Combined Heat Input from the Boilers S009N and S009O firing on ULSD, in terms of MMBtu/hr. This value shall be determined using actual amount of fuel metered to these boilers in the respective time period and a gross calorific value of 140,000 Btu per gallon for ULSD.

HI<sub>total</sub> = Summation of Heat Input from all the operating units (S009J, S009K, S009L, S009M, S009N, S009O) during the time frame, in terms of MMBtu/hr.

For determining compliance with the NO<sub>x</sub> heat input limits of Conditions 4.1.5.a., 5.1.1.b., and 5.1.2.b., the permittee shall take the average of the NO<sub>x</sub> emission rate, which must be in terms of lb of NO<sub>x</sub> per MMBtu, which the permittee shall use the appropriate equations in Method 19 be used to convert the measured concentration of the pollutant into the form of the standard, of the previous 30 operating days compared to the average of the previous 30 operating days of the Weight Average NO<sub>x</sub> Limit is used to determine the amount of excess NO<sub>x</sub> emission emitted if any.

40 CFR Part 75 missing data procedures shall not be used in determining the NO<sub>x</sub> emission rate from Stack 1 for compliance with the limits in Conditions 4.1.5.a., 5.1.1 and 5.1.2.

The records of these determinations and amount of excess NO<sub>x</sub> emissions emitted shall be recorded and maintained in accordance with Condition 3.4.2.

**[45CSR14, R14-0007, 5.4.2.]**

- 5.4.3. The permittee shall keep the following records in accordance with 40 CFR §63.11223(b)(6) as required in Condition 5.1.5. for each boiler



- a. [The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler using a portable combustion analyzer.](#)
- b. [A description of any corrective actions taken as a part of the tune-up; and](#)
- c. [The type and amount of fuel used over the 12 months prior to the tune-up of the unit, but only if the unit was physically and legally capable of using more than one type of fuel during that period.](#)

[\[45CSR14, R14-0007, 5.4.3.; 45CSR34; 40 CFR §63.11223\(b\)\(6\)\]](#)

[5.4.4. The permittee must maintain the following specified records:](#)

- a. [As required in 40 CFR §63.10\(b\)\(2\)\(xiv\), the permittee must keep a copy of each notification and report that the permittee submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted.](#)
- b. [The permittee must keep records to document conformance with the work practices, emission reduction measures, and management practices required by 40 CFR §63.11214 and 40 CFR §63.11223 as specified in paragraphs c., d. and e. of this condition.](#)
- c. [Records must identify each boiler, the date of initial tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.](#)
- d. [The permittee must keep a copy of the energy assessment report.](#)
- e. [The permittee must also keep records of monthly fuel use by each boiler, including the type\(s\) of fuel and amount\(s\) used.](#)
- f. [Records of the occurrence and duration of each malfunction of each boiler.](#)
- g. [Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR §63.11205\(a\), including corrective actions to restore the malfunctioning boiler, or monitoring equipment to its normal or usual manner of operation.](#)

[\[45CSR14, R14-0007, 5.4.4.; 45CSR34; 40 CFR §§63.11225\(c\)\(1\), \(2\)\(i\), \(2\)\(iii\), \(2\)\(iv\), \(4\) and \(5\)\]](#)

[5.4.5. The permittee shall maintain records of the monitoring as required in Conditions 5.2.1., 5.1.1. and 5.2.2., for each steam generating unit operating day for each auxiliary boiler \(S009L and S009M\), which includes at least the following information:](#)

- a. [Calendar date;](#)
- b. [Record the amount of fuel combusted during each operating day and calculate the annual capacity factor individually for ULSD and natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.](#)
- c. [The average hourly NO<sub>x</sub> emission rate in terms of lb per MMBtu heat input;](#)

- d. The 30-day average NO<sub>x</sub> emission rates (expressed as lb per MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
- e. Identification of steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> are in excess of the respective limits in Conditions 5.1.1.b. with reasons for such excess emissions and description of corrective actions taken;
- f. Identification of the steam generating unit operating days for which pollutant data have not been obtained, include reasons for not obtaining sufficient data and a description of corrective actions taken;
- g. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
- h. Identification of “F” factor used for calculations, method of determination, and type of fuel combusted;
- i. Identification of the times when the pollutant concentration exceeded full span of the CEMS;
- j. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with respective Performance Specification (PS) 2 or 3; and
- k. Results of daily CEMS drift tests and quarterly accuracy assessments as required in Appendix F, Procedure 1 of 40 CFR Part 60 or Part 75 if applicable to the monitoring system.
- l. For all boilers (S009L, S009M, S009N and S009O), dates and time intervals of all opacity COMs reading and identify all 6-minutes periods that exceed the limitation of Condition 5.1.3.h.

**[45CSR14, R14-0007, 5.4.5.; 45CSR§2A-7.1.b.; 45CSR16; 40 CFR §60.49b(d)(1), §60.49b(f), §60.49b(g) and §60.48c(c)]**

- 5.4.6. At the end of any month where the annual capacity factor of any one boiler was greater than 80% for two consecutive months, then the permittee shall determine the amount of each pollutant, emitted from the Emission Point Stack 1 on a monthly basis using the actual operating data and appropriate engineering calculations. Such determination shall be performed no later than the 30<sup>th</sup> day from the end of the respective month. The permittee shall keep a 12-month rolling total for each of the pollutants listed in Condition 5.1.3, except for visible emissions. The permittee is only required to keep these monthly records when at least one of the units are operating at an annual capacity factor greater than 80%. This requirement applies to all boilers venting to Emission Point Stack 1. Records of these determinations shall be maintained in accordance with Condition 3.4.2.

**[45CSR14, R14-0007, 5.4.6.]**

- 5.4.7. Records required by 40 CFR 63 Subpart JJJJJ must be in a form suitable and readily available for expeditious review. You must keep each record for 5 years following the date of each recorded action. You must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. You may keep the records off site for the remaining 3 years.

**[45CSR34; 40 CFR §63.11225(d)]**

- [5.4.8.](#) All records of monitored data established in condition 5.2.2.d. shall be maintained on site. Such records shall be made available to the Director or his duly authorized representative upon request. Such records shall be retained on-site for a minimum of five years.  
[\[45CSR§2-8.3.a.\]](#)

## 5.5. Reporting Requirements

- 5.5.1. For the Auxiliary Boilers, the permittee shall submit a Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR §63.11196. Notification of changes must be submitted according to 40 CFR §63.11225(g). You must submit the Notification of Compliance Status in accordance with paragraphs a. and f. of this section. The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs a. through e. of this section, as applicable, and signed by a responsible official ~~Reserved.~~
- a. You must submit the information required in §63.9(h)(2), except the information listed in §63.9(h)(2)(i)(B), (D), (E), and (F). If you conduct any performance tests or CMS performance evaluations, you must submit that data as specified in paragraph (e) of §60.11225. If you conduct any opacity or visible emission observations, or other monitoring procedures or methods, you must submit that data to the Administrator at the appropriate address listed in §63.13.
- b. “This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler.”
- c. “This facility has had an energy assessment performed according to §63.11214(c).”
- d. For units that install bag leak detection systems: “This facility complies with the requirements in §63.11224(f).”
- e. For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: “No secondary materials that are solid waste were combusted in any affected unit.”
- f. The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA’s Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in §63.13.

For Boilers S009N and S009O, the permittee is not required to prepare and submit a Notification of Compliance Status for the tune-up.

For all boilers, the permittee must prepare and submit by March 1 of each year to the Director a biennial compliance certification reports for Boilers S009N and S009O; and 5-years compliance certification reports for the Auxiliary Boilers for the respective corresponding reporting periods containing the information specified in the following:

- a. The permittee name and address.
- b. Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart. Your

notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official:

- i. “This facility complies with the requirements in 40 CFR §63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler.”
- ii. “No secondary materials that are solid waste were combusted in any affected unit.”
- iii. “This facility complies with the requirement in 40 CFR §§63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available.”

These submittals shall be submitted in accordance with Condition 3.5.3. The permittee shall maintain records of all submittals in accordance with Condition 3.4.2.

**[45CSR14, R14-0007, 5.5.1.; 45CSR34; 40 CFR §63.11225(a)(4), §§63.11225(b)(1) and (2)]**

5.5.2. A report of the results of any testing conducted to satisfy the requirements for Conditions 5.3.1. or 5.3.2. shall be submitted to the Director and U.S. EPA Administrator in accordance with Condition 3.5.3. within 60 days after completion of the testing. This report shall conform to the requirements of 40 CFR §60.8(f)(2) and the requirements of Condition 3.3.1.

**[45CSR14, R14-0007, 5.5.2.]**

5.5.3. Once the initial testing as required in Condition 5.3.1. has been completed; *Semi-Annual NO<sub>x</sub> Excess Emission & Excess Opacity and Monitoring System Performance Report* to be included with the facility's Annual and Semi-Annual Title V Compliance Report, the permittee shall submit a report to the Director summarizing NO<sub>x</sub> emissions including periods of startups, shutdowns, malfunctions, and CEMS and COMS system monitor availability for the reporting period. The reporting period is January 1<sup>st</sup> to June 30<sup>th</sup> and July 1<sup>st</sup> to December 31<sup>st</sup>. Such report shall contain the information collected during the respective reporting period as required in Condition 5.4.5. Any emissions data that indicates that the limits as stated in Section 5.1. were exceeded during the corresponding reporting period must be noted in this summary report. At the minimum, the date and time, length of the exceedance(s), magnitude, percentage of excess emissions, the limit that was exceeded, the cause of the exceedances, and the corrective action taken shall be included in the summary report.

**[45CSR14, R14-0007, 5.5.3.; 45CSR §13-3.; 45CSR16; 40 CFR §60.7(c); 40 CFR §§60.49b(h) and (h)(2)(ii), §60.48c(c)]**

5.5.4. The permittee shall submit Opacity Excess Emissions reports to the Director no later than the 30<sup>th</sup> day following the end of the reporting period in accordance with Condition 3.5.1. Such reports shall cover the six-month period of January to June and July to December of any exceedance(s) of the allowable visible emission standard of Condition 5.1.3.h., 40 CFR 60.43b(f) and/or 40 CFR 60.43c(c) (excess emissions) of permitted boilers discovered during observations using 40 CFR Part 60, Appendix A, Method 9, of the occurrence and shall include, at a minimum, the information required in Condition 5.2.3. of the excess opacity observed, the cause or suspected cause of the excess opacity, and any corrective measures taken or planned.

**[45CSR14, R14-0007, 5.5.4.; 45CSR§2-8.3b.; 45CSR16; 40 CFR §60.49b(h), §60.48c(c)]**

5.5.5. Excess opacity periods meeting the following conditions may be reported on a quarterly basis unless otherwise required by the Director:

- a. The excess opacity period does not exceed one 6-minute period per hour and/or thirty (30) minutes within any twenty-four (24) hour period.
- b. Excess opacity does not exceed twenty-seven percent (27%). Compliance with this streamlined requirement assures compliance with 45CSR§2-9.3.a.2.

**[45CSR§2-9.3.a.; 45CSR16; 40 CFR §60.43b(f), §60.43c(c)]**

5.5.6. The owner or operator of each affected facility subject to the opacity limits of 40 CFR §60.43c, shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in appendix B of 40 CFR Part 60.

**[45CSR16; 40 CFR §60.48c(b)]**

5.5.7. The owner or operator of each affected facility subject to the fuel oil sulfur limits requirements under 40 CFR §60.42c shall submit reports and keep records to the Director including the following information.

- a. Calendar dates covered in the reporting period.
- b. If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1) of 40 CFR §60.48c. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

**[45CSR16; 40 CFR §60.48c(d), §60.48c(e), (e)(1) and (e)(11)]**

5.5.8. Except as provided in permit condition 5.5.5. above, the owner or operator shall report to the Director by telephone, telefax, or e-mail any malfunction of Auxiliary Boiler #1, Auxiliary Boiler #2, Boiler #1 or Boiler #2 or their associated air pollution control equipment, which results in any excess particulate matter (while burning ULSD) or excess opacity (while burning natural gas or ULSD), by the end of the next business day after becoming aware of such condition. The owner or operator shall file a certified written report concerning the malfunction with the Director within thirty (30) days providing the following information:

- a. A detailed explanation of the factors involved or causes of the malfunction;
- b. The date, and time of duration (with starting and ending times) of the period of excess emissions;
- c. An estimate of the mass of excess emissions discharged during the malfunction period;
- d. The maximum opacity measured or observed during the malfunction;
- e. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and
- f. A detailed explanation of the corrective measures or program that will be implemented to prevent a recurrence of the malfunction and a schedule for such implementation.

**[45CSR§2-9.3.b.]**

## 5.6. Compliance Plan

5.6.1. None.

# APPENDIX A

## Cross-State Air Pollution Rule Requirements

### Cross-State Air Pollution Rule (CSAPR) Trading Program Title V Requirements

<b>Plant Name: Morgantown Energy Associates</b>	<b>West Virginia ID Number: 061-00027</b>	<b>ORIS/Facility Code: 10743</b>
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1. Owners and operators of the CSAPR subject unit(s) identified in the CSAPR Monitoring Requirements Table below are subject to the requirements of the *CSAPR NO<sub>x</sub> Annual Trading Program Requirements*, *CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ **2** Trading Program Requirements*, and the *CSAPR SO<sub>2</sub> Group 1 Trading Program Requirements* in Appendix A to this permit.
2. Owners and operators of the CSAPR subject unit(s) identified in the CSAPR Monitoring Requirements Table below are subject to the monitoring requirements specified in the table below.

<b>CSAPR MONITORING REQUIREMENTS TABLE</b>			
<b>Description of Monitoring Requirements:</b>	<b>Parameter</b>		
	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>Heat Input</b>
<b>Unit ID: S009J</b>			
Continuous emission monitoring system (CEMS) pursuant to 40 CFR part 75, subpart B (for SO <sub>2</sub> monitoring) and 40 CFR part 75, subpart H (for NO <sub>x</sub> monitoring)	<del>X</del>	X	<del>X</del>
Excepted monitoring system pursuant to 40 CFR part 75, appendix D ( <i>Optional SO<sub>2</sub> Emissions Data Protocol for Gas-Fired and Oil-Fired Units</i> )	<u>X</u>		<u>X</u>
Excepted monitoring system pursuant to 40 CFR part 75, appendix E ( <i>Optional NO<sub>x</sub> Emissions Protocol for Gas-Fired Peaking Units and Oil-Fired Peaking Units</i> )			
Low Mass Emissions excepted monitoring (LME) pursuant to 40 CFR 75.19 ( <i>Optional SO<sub>2</sub>, NO<sub>x</sub>, and CO<sub>2</sub> Emissions Calculation for Low Mass Emissions (LME) Units</i> )			
EPA-approved alternative monitoring system pursuant to 40 CFR part 75, subpart E			
<b>Unit ID: S009K</b>			
Continuous emission monitoring system (CEMS) pursuant to 40 CFR part 75, subpart B (for SO <sub>2</sub> monitoring) and 40 CFR part 75, subpart H (for NO <sub>x</sub> monitoring)	<del>X</del>	X	<del>X</del>
Excepted monitoring system pursuant to 40 CFR part 75, appendix D ( <i>Optional SO<sub>2</sub> Emissions Data Protocol for Gas-Fired and Oil-Fired Units</i> )	<u>X</u>		<u>X</u>
Excepted monitoring system pursuant to 40 CFR part 75, appendix E ( <i>Optional NO<sub>x</sub> Emissions Protocol for Gas-Fired Peaking Units and Oil-Fired Peaking Units</i> )			
Low Mass Emissions excepted monitoring (LME) pursuant to 40 CFR 75.19 ( <i>Optional SO<sub>2</sub>, NO<sub>x</sub>, and CO<sub>2</sub> Emissions Calculation for Low Mass Emissions (LME) Units</i> )			
EPA-approved alternative monitoring system pursuant to 40 CFR part 75, subpart E			

3. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435, (*CSAPR NO<sub>x</sub> Annual Trading Program*), 97.~~1030~~ ~~830~~ through 97.~~1035~~ ~~835~~ (*CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ **2** Trading Program*) and, 97.630 through 97.635 (*CSAPR SO<sub>2</sub> Group 1 Trading Program*). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading program.
4. Owners and operators shall submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable.
5. Owners and operators that want to use an alternative monitoring system shall submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E, 40 CFR 75.66, and the applicable trading program provisions found in 40 CFR 97.435 (*CSAPR NO<sub>x</sub> Annual Trading Program*), 97.~~1035~~ ~~835~~ (*CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ **2** Trading Program*) and, 97.635 (*CSAPR SO<sub>2</sub> Group 1 Trading Program*). The



Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <https://www.epa.gov/airmarkets/complete-list-responses-40-cfr-part-75-petitions>.

6. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (*CSAPR NO<sub>x</sub> Annual Trading Program*), 97.~~1030~~ ~~830~~ through 97.~~1034~~ ~~834~~ (*CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ ~~2~~ Trading Program*) and/or, 97.630 through 97.634 (*CSAPR SO<sub>2</sub> Group 1 Trading Program*) shall submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (*CSAPR NO<sub>x</sub> Annual Trading Program*), 97.~~1035~~ ~~835~~ (*CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ ~~2~~ Trading Program*) and/or 97.635 (*CSAPR SO<sub>2</sub> Group 1 Trading Program*). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA's website at <https://www.epa.gov/airmarkets/complete-list-responses-40-cfr-part-75-petitions>.

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**CSAPR NO<sub>x</sub> Annual Trading Program requirements (40 CFR 97.406)**

**(a) Designated representative requirements.**

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

**(b) Emissions monitoring, reporting, and recordkeeping requirements.**

- (1) The owners and operators, and the designated representative, of each CSAPR NO<sub>x</sub> Annual source and each CSAPR NO<sub>x</sub> Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general monitoring, recordkeeping, and reporting requirements, including: installation, certification, and data accounting; compliance deadlines; reporting data; prohibitions; and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including: monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of CSAPR NO<sub>x</sub> Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NO<sub>x</sub> Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

**(c) NO<sub>x</sub> emissions requirements.**

- (1) CSAPR NO<sub>x</sub> Annual emissions limitation.
  - (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO<sub>x</sub> Annual source and each CSAPR NO<sub>x</sub> Annual unit at the source shall hold, in the source's compliance account, CSAPR NO<sub>x</sub> Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all CSAPR NO<sub>x</sub> Annual units at the source.
  - (ii). If total NO<sub>x</sub> emissions during a control period in a given year from the CSAPR NO<sub>x</sub> Annual units at a CSAPR NO<sub>x</sub> Annual source exceed the CSAPR NO<sub>x</sub> Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:
    - (A). The owners and operators of the source and each CSAPR NO<sub>x</sub> Annual unit at the source shall hold the CSAPR NO<sub>x</sub> Annual allowances required for deduction under 40 CFR 97.424(d); and
    - (B). The owners and operators of the source and each CSAPR NO<sub>x</sub> Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (2) CSAPR NO<sub>x</sub> Annual assurance provisions.
  - (i). If total NO<sub>x</sub> emissions during a control period in a given year from all CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in West Virginia exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO<sub>x</sub> emissions during such control period exceeds the common designated representative's assurance level for West Virginia and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO<sub>x</sub> Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying:
    - (A). The quotient of the amount by which the common designated representative's share of such NO<sub>x</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in West

- Virginia for such control period, by which each common designated representative's share of such NO<sub>x</sub> emissions exceeds the respective common designated representative's assurance level; and
- (B) The amount by which total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in West Virginia for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the CSAPR NO<sub>x</sub> Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (iii). Total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in West Virginia during a control period in a given year exceed the state assurance level if such total NO<sub>x</sub> emissions exceed the sum, for such control period, of the state NO<sub>x</sub> Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).
- (iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in West Virginia during a control period exceed the state assurance level or if a common designated representative's share of total NO<sub>x</sub> emissions from the CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in the state during a control period exceeds the common designated representative's assurance level.
- (v). To the extent the owners and operators fail to hold CSAPR NO<sub>x</sub> Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
- (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
- (B). Each CSAPR NO<sub>x</sub> Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (3) Compliance periods.
- (i). A CSAPR NO<sub>x</sub> Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
- (ii). A CSAPR NO<sub>x</sub> Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
- (4) Vintage of CSAPR NO<sub>x</sub> Annual allowances held for compliance.
- (i). A CSAPR NO<sub>x</sub> Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Annual allowance that was allocated for such control period or a control period in a prior year.
- (ii). A CSAPR NO<sub>x</sub> Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each CSAPR NO<sub>x</sub> Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.
- (6) Limited authorization. A CSAPR NO<sub>x</sub> Annual allowance is a limited authorization to emit one ton of NO<sub>x</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:
- (i). Such authorization shall only be used in accordance with the CSAPR NO<sub>x</sub> Annual Trading Program; and
- (ii). Notwithstanding any other provision of 40 CFR part 97, subpart AAAAA, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (7) Property right. A CSAPR NO<sub>x</sub> Annual allowance does not constitute a property right.
- (d) Title V permit revision requirements.**
- (1) Owners and operators shall not be required to revise the title V permit for any allocation, holding, deduction, or transfer of CSAPR NO<sub>x</sub> Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.

- (2) Owners and operators shall revise the title V permit for any addition of, or change to, a unit's description in the CSAPR Monitoring Requirements Table above. The addition of, or change to, a unit's description of whether a unit is required to monitor and report NO<sub>x</sub> emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.430 through 97.435 is eligible for minor permit modification procedures in accordance with 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

**(e) Additional recordkeeping and reporting requirements.**

- (1) Unless otherwise provided, the owners and operators of each CSAPR NO<sub>x</sub> Annual source and each CSAPR NO<sub>x</sub> Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
- (i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each CSAPR NO<sub>x</sub> Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.
  - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.
  - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO<sub>x</sub> Annual Trading Program.
- (2) The designated representative of a CSAPR NO<sub>x</sub> Annual source and each CSAPR NO<sub>x</sub> Annual unit at the source shall make all submissions required under the CSAPR NO<sub>x</sub> Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

**(f) Liability.**

- (1) Any provision of the CSAPR NO<sub>x</sub> Annual Trading Program that applies to a CSAPR NO<sub>x</sub> Annual source or the designated representative of a CSAPR NO<sub>x</sub> Annual source shall also apply to the owners and operators of such source and of the CSAPR NO<sub>x</sub> Annual units at the source.
- (2) Any provision of the CSAPR NO<sub>x</sub> Annual Trading Program that applies to a CSAPR NO<sub>x</sub> Annual unit or the designated representative of a CSAPR NO<sub>x</sub> Annual unit shall also apply to the owners and operators of such unit.

**(g) Effect on other authorities.**

No provision of the CSAPR NO<sub>x</sub> Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO<sub>x</sub> Annual source or CSAPR NO<sub>x</sub> Annual unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

**CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) Trading Program Requirements (40 CFR ~~97.1006~~ [806](#))**

**(a) Designated representative requirements.**

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.~~1013~~ [813](#) through 97.~~1018~~ [818](#).

**(b) Emissions monitoring, reporting, and recordkeeping requirements.**

(1) The owners and operators, and the designated representative, of each CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) source and each CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.~~1030~~ [830](#) (general monitoring, recordkeeping, and reporting requirements, including: installation, certification, and data accounting; compliance deadlines; reporting data; prohibitions; and long-term cold storage), 97.~~1031~~ [831](#) (initial monitoring system certification and recertification procedures), 97.~~1032~~ [832](#) (monitoring system out-of-control periods), 97.~~1033~~ [833](#) (notifications concerning monitoring), 97.~~1034~~ [834](#) (recordkeeping and reporting, including: monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.~~1035~~ [835](#) (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.~~1030~~ [830](#) through 97.~~1035~~ [835](#) shall be used to calculate allocations of CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) allowances under 40 CFR 97.~~1011~~ [811](#)(a)(2) and (b) and 97.~~1012~~ [812](#) and to determine compliance with the CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.~~1030~~ [830](#) through 97.~~1035~~ [835](#) and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

**(c) NO<sub>x</sub> emissions requirements.**

(1) CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#)-emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#)-source and each CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#)-unit at the source shall hold, in the source's compliance account, CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#)-allowances available for deduction for such control period under 40 CFR 97.~~1024~~ [824](#)(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#)-units at the source.

(ii). If total NO<sub>x</sub> emissions during a control period in a given year from the CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) units at a CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#)-source exceed the CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) unit at the source shall hold the CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) allowances required for deduction under 40 CFR 97.~~1024~~ [824](#)(d); and

(B). The owners and operators of the source and each CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart ~~GGGGG~~ [EEEE](#) and the Clean Air Act.

(2) CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) assurance provisions.

(i). If total NO<sub>x</sub> emissions during a control period in a given year from all CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) units at CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) sources in West Virginia exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO<sub>x</sub> emissions during such control period exceeds the common designated representative's assurance level for West Virginia and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO<sub>x</sub> Ozone Season Group ~~3~~ [2](#) allowances available for deduction for such control period under 40 CFR 97.~~1025~~ [825](#)(a) in an amount equal to two times the product

- (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.[1025](#) ~~825~~(b), of multiplying—
- (A). The quotient of the amount by which the common designated representative's share of such NO<sub>x</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in West Virginia for such control period, by which each common designated representative's share of such NO<sub>x</sub> emissions exceeds the respective common designated representative's assurance level; and
  - (B). The amount by which total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ units at CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ sources in West Virginia for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period.
  - (iii). Total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ units at CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ sources in West Virginia during a control period in a given year exceed the state assurance level if such total NO<sub>x</sub> emissions exceed the sum, for such control period, of the state NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ Trading budget under 40 CFR 97.[1010](#) ~~810~~(a) and the state's variability limit under 40 CFR 97.[1010](#) ~~810~~(b).
  - (iv). It shall not be a violation of 40 CFR part 97, subpart ~~GGGGG~~ ~~EEEE~~ or of the Clean Air Act if total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ units at CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ sources in West Virginia during a control period exceed the state assurance level or if a common designated representative's share of total NO<sub>x</sub> emissions from the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ units at CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ sources in the state during a control period exceeds the common designated representative's assurance level.
  - (v). To the extent the owners and operators fail to hold CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
    - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
    - (B). Each CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart ~~GGGGG~~ ~~EEEE~~ and the Clean Air Act.
- (3) Compliance periods.
- (i). A CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, [2021](#) ~~2017~~ or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.[1030](#) ~~830~~(b) and for each control period thereafter.
  - (ii). A CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, [2021](#) ~~2017~~ or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.[1030](#) ~~830~~(b) and for each control period thereafter.
- (4) Vintage of CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowances held for compliance.
- (i). A CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowance that was allocated for such control period or a control period in a prior year.
  - (ii). A CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart ~~GGGGG~~ ~~EEEE~~.
- (6) Limited authorization. A CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowance is a limited authorization to emit one ton of NO<sub>x</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:

- (i). Such authorization shall only be used in accordance with the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ Trading Program; and
  - (ii). Notwithstanding any other provision of 40 CFR part 97, subpart [GGGGG](#) ~~EEEE~~, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (7) Property right. A CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ allowance does not constitute a property right.

**(d) Title V permit revision requirements.**

- (1) Owners and operators shall not be required to revise the title V permit for any allocation, holding, deduction, or transfer of CSAPR NO<sub>x</sub> Annual allowances in accordance with 40 CFR part 97, subpart [GGGGG](#) ~~EEEE~~.
- (2) Owners and operators shall revise the title V permit for any addition of, or change to, a unit's description in the CSAPR Monitoring Requirements Table above. The addition of, or change to, a unit's description of whether a unit is required to monitor and report NO<sub>x</sub> emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.[1030](#) ~~830~~ through 97.[1035](#) ~~835~~ is eligible for minor permit modification procedures in accordance with 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

**(e) Additional recordkeeping and reporting requirements.**

- (1) Unless otherwise provided, the owners and operators of each CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ source and each CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
  - (i). The certificate of representation under 40 CFR 97.[1016](#) ~~816~~ for the designated representative for the source and each CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.[1016](#) ~~816~~ changing the designated representative.
  - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart [GGGGG](#) ~~EEEE~~.
  - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ Trading Program.
- (2) The designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ source and each CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ unit at the source shall make all submissions required under the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ Trading Program, except as provided in 40 CFR 97.[1018](#) ~~818~~. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

**(f) Liability.**

- (1) Any provision of the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ Trading Program that applies to a CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ source or the designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ source shall also apply to the owners and operators of such source and of the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ units at the source.
- (2) Any provision of the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ Trading Program that applies to a CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ unit or the designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ unit shall also apply to the owners and operators of such unit.

**(g) Effect on other authorities.**

No provision of the CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ Trading Program or exemption under 40 CFR 97.[1005](#) ~~805~~ shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ source or CSAPR NO<sub>x</sub> Ozone Season Group [3](#) ~~2~~ unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

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**CSAPR SO<sub>2</sub> Group 1 Trading Program requirements (40 CFR 97.606)**

**(a) Designated representative requirements.**

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

**(b) Emissions monitoring, reporting, and recordkeeping requirements.**

- (1) The owners and operators, and the designated representative, of each CSAPR SO<sub>2</sub> Group 1 source and each CSAPR SO<sub>2</sub> Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general monitoring, recordkeeping, and reporting requirements, including: installation, certification, and data accounting; compliance deadlines; reporting data; prohibitions; and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including: monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of CSAPR SO<sub>2</sub> Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO<sub>2</sub> Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

**(c) SO<sub>2</sub> emissions requirements.**

(1) CSAPR SO<sub>2</sub> Group 1 emissions limitation.

- (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO<sub>2</sub> Group 1 source and each CSAPR SO<sub>2</sub> Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO<sub>2</sub> Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO<sub>2</sub> emissions for such control period from all CSAPR SO<sub>2</sub> Group 1 units at the source.
- (ii). If total SO<sub>2</sub> emissions during a control period in a given year from the CSAPR SO<sub>2</sub> Group 1 units at a CSAPR SO<sub>2</sub> Group 1 source exceed the CSAPR SO<sub>2</sub> Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
  - (A). The owners and operators of the source and each CSAPR SO<sub>2</sub> Group 1 unit at the source shall hold the CSAPR SO<sub>2</sub> Group 1 allowances required for deduction under 40 CFR 97.624(d); and
  - (B). The owners and operators of the source and each CSAPR SO<sub>2</sub> Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(2) CSAPR SO<sub>2</sub> Group 1 assurance provisions.

- (i). If total SO<sub>2</sub> emissions during a control period in a given year from all CSAPR SO<sub>2</sub> Group 1 units at CSAPR SO<sub>2</sub> Group 1 sources in West Virginia exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO<sub>2</sub> emissions during such control period exceeds the common designated representative's assurance level for West Virginia and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR SO<sub>2</sub> Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—
  - (A). The quotient of the amount by which the common designated representative's share of such SO<sub>2</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in West



- Virginia for such control period, by which each common designated representative's share of such SO<sub>2</sub> emissions exceeds the respective common designated representative's assurance level; and
- (B). The amount by which total SO<sub>2</sub> emissions from all CSAPR SO<sub>2</sub> Group 1 units at CSAPR SO<sub>2</sub> Group 1 sources in West Virginia for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the CSAPR SO<sub>2</sub> Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (iii). Total SO<sub>2</sub> emissions from all CSAPR SO<sub>2</sub> Group 1 units at CSAPR SO<sub>2</sub> Group 1 sources in West Virginia during a control period in a given year exceed the state assurance level if such total SO<sub>2</sub> emissions exceed the sum, for such control period, of the state SO<sub>2</sub> Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).
- (iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO<sub>2</sub> emissions from all CSAPR SO<sub>2</sub> Group 1 units at CSAPR SO<sub>2</sub> Group 1 sources in West Virginia during a control period exceed the state assurance level or if a common designated representative's share of total SO<sub>2</sub> emissions from the CSAPR SO<sub>2</sub> Group 1 units at CSAPR SO<sub>2</sub> Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.
- (v). To the extent the owners and operators fail to hold CSAPR SO<sub>2</sub> Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
- (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
- (B). Each CSAPR SO<sub>2</sub> Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.
- (3) Compliance periods.
- (i). A CSAPR SO<sub>2</sub> Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
- (ii). A CSAPR SO<sub>2</sub> Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
- (4) Vintage of CSAPR SO<sub>2</sub> Group 1 allowances held for compliance.
- (i). A CSAPR SO<sub>2</sub> Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR SO<sub>2</sub> Group 1 allowance that was allocated for such control period or a control period in a prior year.
- (ii). A CSAPR SO<sub>2</sub> Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) above for a control period in a given year must be a CSAPR SO<sub>2</sub> Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each CSAPR SO<sub>2</sub> Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.
- (6) Limited authorization. A CSAPR SO<sub>2</sub> Group 1 allowance is a limited authorization to emit one ton of SO<sub>2</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:
- (i). Such authorization shall only be used in accordance with the CSAPR SO<sub>2</sub> Group 1 Trading Program; and
- (ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (7) Property right. A CSAPR SO<sub>2</sub> Group 1 allowance does not constitute a property right.
- (d) Title V permit revision requirements.**
- (1) Owners and operators shall not be required to revise the title V permit for any allocation, holding, deduction, or transfer of CSAPR NO<sub>x</sub> Annual allowances in accordance with 40 CFR part 97, subpart CCCCC.

- (2) Owners and operators shall revise the title V permit for any addition of, or change to, a unit's description in the CSAPR Monitoring Requirements Table above. The addition of, or change to, a unit's description of whether a unit is required to monitor and report NOx emissions using a continuous emission monitoring system (under subpart B of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.630 through 97.635 is eligible for minor permit modification procedures in accordance with 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

**(e) Additional recordkeeping and reporting requirements.**

- (1) Unless otherwise provided, the owners and operators of each CSAPR SO<sub>2</sub> Group 1 source and each CSAPR SO<sub>2</sub> Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
  - (i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each CSAPR SO<sub>2</sub> Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.
  - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.
  - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO<sub>2</sub> Group 1 Trading Program.
- (2) The designated representative of a CSAPR SO<sub>2</sub> Group 1 source and each CSAPR SO<sub>2</sub> Group 1 unit at the source shall make all submissions required under the CSAPR SO<sub>2</sub> Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

**(f) Liability.**

- (1) Any provision of the CSAPR SO<sub>2</sub> Group 1 Trading Program that applies to a CSAPR SO<sub>2</sub> Group 1 source or the designated representative of a CSAPR SO<sub>2</sub> Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO<sub>2</sub> Group 1 units at the source.
- (2) Any provision of the CSAPR SO<sub>2</sub> Group 1 Trading Program that applies to a CSAPR SO<sub>2</sub> Group 1 unit or the designated representative of a CSAPR SO<sub>2</sub> Group 1 unit shall also apply to the owners and operators of such unit.

**(g) Effect on other authorities.**

No provision of the CSAPR SO<sub>2</sub> Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO<sub>2</sub> Group 1 source or CSAPR SO<sub>2</sub> Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.