

AIR QUALITY DIVISION
CHAPTER 6, SECTION 3
OPERATING PERMIT

WYOMING DEPARTMENT OF
ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
122 West 25th Street
Cheyenne, Wyoming 82002



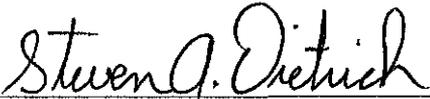
PERMIT NO. 3-3-096

Issue Date: **August 17, 2015**
Expiration Date: **August 17, 2020**
Effective Date: **August 17, 2015**
Replaces Permit No.: **3-2-096-2**

In accordance with the provisions of W.S. §35-11-203 through W.S. §35-11-212 and Chapter 6, Section 3 of the Wyoming Air Quality Standards and Regulations,

Bentonite Performance Minerals, LLC
Colony Grinding Plant
Section 11, Township 56 North, Range 61 West
Crook County, Wyoming

is authorized to operate a stationary source of air contaminants consisting of emission units described in this permit. The units described are subject to the terms and conditions specified in this permit. All terms and conditions of the permit are enforceable by the State of Wyoming. All terms and conditions of the permit, except those designated as not federally enforceable, are enforceable by EPA and citizens under the Act. A copy of this permit shall be kept on-site at the above named facility.



Steven A. Dietrich, Administrator
Air Quality Division

8-17-15

Date



Todd Parfitt, Director
Department of Environmental Quality

8/24/15

Date

WAQSR CHAPTER 6, SECTION 3 OPERATING PERMIT

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

TABLE OF CONTENTS

General Information.....	3
Source Emission Points.....	4
Total Facility Estimated Emissions	6
Facility-Specific Permit Conditions.....	7
Facility-Wide Permit Conditions	7
Source-Specific Permit Conditions.....	7
Testing and Monitoring Requirements	9
Recordkeeping Requirements	11
Reporting Requirements	13
WAQSR Chapter 5, Section 2 and 40 CFR 60 Subpart OOO Requirements.....	15
WAQSR Chapter 5, Section 2 and 40 CFR 60 Subpart IIII Requirements	16
WAQSR Chapter 5, Section 3 and 40 CFR 63 Subpart ZZZZ Requirements.....	17
WAQSR Chapter 7, Section 3 Compliance Assurance Monitoring (CAM) Requirements	18
Compliance Certification and Schedule.....	19
Compliance Certification	19
Compliance Schedule.....	20
General Permit Conditions.....	21
State Only Permit Conditions	26
Summary of Source Emission Limits and Requirements	28
Abbreviations.....	32
Definitions.....	33
Appendix A: Coal Consumption Plan	
Appendix B: Compliance Assurance Monitoring (CAM) Plan	

GENERAL INFORMATION

Company Name: Bentonite Performance Minerals, LLC

Mailing Address: 554 US Hwy 212

City: Belle Fourche State: SD Zip: 57717

Plant Name: Colony Grinding Plant

Plant Location: Section 11, Township 56 North, Range 61 West, Crook County, Wyoming (20 miles west of Belle Fourche, South Dakota, on highway 212)

Latitude/Longitude (WGS84): 44.859612/-104.139843

Plant Mailing Address: 554 US Hwy 212

City: Belle Fourche State: SD Zip: 57717

Name of Owner: Halliburton Energy Services, Inc. Phone: (281) 575-4018

Plant Manager/Contact: Ron Speidel Phone: (307) 896-8519

DEQ Air Quality Contact: District 3 Engineer
2100 West 5th Street
Sheridan, WY 82801 Phone: (307) 673-9337

SIC Code: 1459 NAICS Code: 212325

Description of Process: The Colony Grinding Plant is a bentonite clay processing plant. Raw bentonite clay is transported to the plant by haul trucks and stored in outside storage piles to field dry. The clay is worked with farm equipment to reduce the large chunks and promote drying. Clay from the storage piles is crushed and then dried using roll crushers and three 27-MMBtu/hr rotary dryers fired primarily on coal; natural gas is used for start-up and as a back-up fuel. The crushed and dried (C&D) bentonite from the dryers is stored in silos. A small portion is stockpiled outside for bulk rail loadout or used as feedstock material for other processes.

Plant products include: C&D bulk bentonite, granular bentonite, "Baramix" foundry premix products, and "Bore-Gel" well field drilling products. These products are sold in bulk and/or smaller bags and are shipped offsite by truck or railcar.

Particulate emissions from the C&D process are controlled by an electrostatic precipitator (ESP) in combination with a multiclone. The ESP controls additional processes throughout the plant along with individual fabric filters.

SOURCE EMISSION POINTS

This table may not include any or all insignificant activities at this facility.

SOURCE ID#	SOURCE DESCRIPTION (CONTROLS)	SIZE	CH-6, SEC-2 PERMITS & WAIVERS
C&D Process Sources			
BV1	Fuel Coal Silo (bin vent)	50 TPH	MD-260
ESP	#1, #2 and #3 Dryers, Raymond Mills, Granular Packer, Granular Loadout, misc. (electrostatic precipitator)	64 TPH	MD-260, MD-603A
DDBH	C&D Storage Bunker (baghouse)	64 TPH	AP-2001A
DDBH-2	C&D Storage Bunker (second baghouse)	69.5 TPH	wv-10710
CDRLB	C&D Rail Loadout (baghouse)	850 TPH	MD-1310
CDRBH	C&D Reclaim Hopper (baghouse)	100 TPH	MD-15587
Bulk Process Sources			
BV2	Bulk Silo P-1 (bin vent)	50 TPH	MD-260
BV3	Bulk Silo P-2 (bin vent)	50 TPH	MD-13654
BV4	Bulk Silo P-3 (bin vent)	50 TPH	wv-12269
BV13	200-Mesh Surge Bin (cartridge)	50 TPH	AP-J67
BV14	200-Mesh Silo P-4 (cartridge)	50 TPH	AP-J67
DPJ	200-Mesh Loadout (baghouse)	50 TPH	AP-J67
PPPSP	Powder Packer/Palletizer (baghouse)	60 TPH	AP-8299
BRLSP	Powder Rail & Truck, Granular Truck Bulk Loadout (baghouse)	70 TPH	MD-603A
Granular Process Sources			
GBH1	Granular Silo #1 (cartridge)	15 TPH	AP-1657
GBH2	Granular Silo #2 (cartridge)	15 TPH	AP-1656
GBH3	Granular Silo #3 (cartridge)	15 TPH	AP-1652
BV6	Granular Receiving Bins (cartridge)	25 TPH	MD-603A
MEGBH	Megatex Screening System (baghouse)	69.5 TPH	AP-2174
DBBH	Dry Bin Dust Collector, Nuisance Dust, SWECOs (cartridge)	60 TPH	MD-13654
South Plant (Bore-Gel Process) Sources			
BV15	Bore-Gel Silo P-5 (baghouse)	50 TPH	MD-603A
MK1	Bore-Gel Screens, Packer (baghouse)	25 TPH	MD-603A, wv-9598
Specialty Plant (Baramix Process) Sources			
BV7	Crude Coal Silo (#1) (baghouse)	30 TPH	MD-260
BV8	Coal Mill/Silo (#4) (baghouse)	10 TPH	AP-1145 Corr., wv-11193

SOURCE ID#	SOURCE DESCRIPTION (CONTROLS)	SIZE	CH. 6, SEC. 2 PERMITS & WAIVERS
BV5	Baramix Silo B-2 (bin vent bag filter)	25 TPH	AP-1145 Corr.
BV9	Baramix Silo B-3 (bin vent)	20 TPH	MD-260
DC3	Baramix Silo B-5 (dixie cup)	15 TPH	MD-260
DC4	Baramix Silo B-6 (dixie cup)	15 TPH	MD-260
BV12	Baramix Blender/Additives (baghouse)	25 TPH	MD-260
DC5	Baramix Packer Bin (dixie cup)	50 TPH	AP-1145 Corr.
BV11	Baramix Finished Silo B-7 (baghouse)	20 TPH	MD-260
BV10	Baramix Truck Loadout (baghouse)	50 TPH	MD-260
Sly4	Baramix Sly Baghouse (baghouse)	30 TPH	MD-260
Grout System			
GSBH	Grout System Mix Tanks, Packer (cartridge)	2 TPH	AP-8512
Mountain Mover Units			
MM1&2	Mountain Mover Storage Units (filter socks)	5600 TPY	AP-9502
MME1&2	(2) Caterpillar 3116 Diesel Engines	86 hp each	AP-9502
Fuel Burning Equipment			
HTRS	Misc. Gas Fired Heaters	0.02 to 0.20 MMBtu/hr	None
Fugitive Sources and Tanks			
HR1-6	Haul Roads/Vehicle/Front End Loader Operations	N/A	MD-603A
SP1-2	Material Stockpiles	N/A	None
CBI-2	Coal Transfer	N/A	None
MT1-8	Material Transfer (MT3 controlled by DDBH and DDBH-2, MT4 controlled by CDRLB)	N/A	None
DDB	C&D Storage Bunker (controlled by DDBH and DDBH-2)	N/A	AP-2001A
RLO-1	Granular Rail Loadout (controlled by ESP)	200,000 TPY	None
RLO-2*	C&D Rail Loadout (controlled by CDRLB) *this source was previously named CDRLO	175,000 TPY	MD-1310
RLO-3	Powder Rail Loadout (controlled by BRLSP)	200,000 TPY	None
RLO-4	Baramix Rail Loadout	50,000 TPY	None
TLO-1	Powder Truck Loadout (controlled by BRLSP)	50,000 TPY	None
TLO-2	Granular Truck Loadout (controlled by BRLSP)	50,000 TPY	None
TLO-3	Baramix Truck Loadout (controlled by BV10)	50,000 TPY	None
TLO-4	200 Mesh Truck Loadout (controlled by DPJ)	N/A	None
TLO-5	C&D Truck Loadout – contingency use	525 TPY	wv-12930
Fuel Storage	Fuel Storage Tanks	N/A	None

TOTAL FACILITY ESTIMATED EMISSIONS

For informational purposes only. These emissions are not to be assumed as permit limits.

POLLUTANT	EMISSIONS (TYP)
CRITERIA POLLUTANT EMISSIONS	
Particulate Matter	300
PM ₁₀ Particulate Matter	210
PM _{2.5} Particulate Matter	34
Sulfur Dioxide (SO ₂)	194
Nitrogen Oxides (NO _x)	236
Carbon Monoxide (CO)	9
Volatile Organic Compounds (VOCs)	2
HAZARDOUS AIR POLLUTANT (HAP) EMISSIONS	6.8
GREENHOUSE GAS EMISSIONS (CO₂e)	35,871

Emission estimates are from the operating permit application. HAP emissions include hydrogen chloride (HCl) and hydrogen fluoride (HF) emissions from coal combustion.

FACILITY-SPECIFIC PERMIT CONDITIONS

Facility-Wide Permit Conditions

- (F1) **SULFUR DIOXIDE EMISSIONS INVENTORY** [WAQSR Ch 14, Sec 3]
 If actual SO₂ emissions from the facility are 100 TPY or more in calendar year 2000 or any subsequent year, the permittee shall comply with the requirements of WAQSR Ch 14, Sec 3, with the exemptions described in Ch 14, Sec 3(a).
- (a) SO₂ emissions shall be estimated in accordance with Ch 14 Sec 3(b), and adjusted in accordance with Ch 14 Sec 3(c) if necessary.
 - (b) Records used in the calculation of SO₂ emissions shall be maintained in accordance with Ch 14, Sec 3(b).
 - (c) Reports of SO₂ emissions shall be submitted to the Division in accordance with Ch 14, Sec 3(b) and (c).

Source-Specific Permit Conditions

- (F2) **VISIBLE AND PARTICULATE EMISSIONS**
 [WAQSR Ch 3, Sec 2; Ch 6, Sec 2 Permits/Waivers MD-260, AP-J67, MD-603A, AP-1145 Corrected, AP-1652, AP-1656, AP-1657, AP-2174, AP-2001A, MD-1310, AP-8299, AP-8512, AP-9502, wv-9598, wv-10710, wv-11193, wv-12269, MD-13654 and MD-15587; 40 CFR 60 Subpart 000]
- (a) Visible and particulate emissions from the units listed in Table I shall not exceed the specified limits.
 - (b) The PPPSP baghouse shall be operated and maintained during all bentonite processing operations. Visible emissions from the baghouse shall not exceed 7 percent opacity, and visible emissions from any other source associated with the PPPSP system shall not exceed 20 percent opacity, as determined by Method 9 of 40 CFR 60, Appendix A.
 - (c) Visible emissions from the Mountain Mover Storage Units, including the filtering socks (MM1&2) and conveyor transfer points; as well as from the C&D Reclaim Hopper baghouse (CDRBH) and Bulk Silo P-2 bin vent filter (BV3), shall not exceed 7 percent opacity as determined by Method 9 of 40 CFR 60, Appendix A.
 - (d) Visible emissions from the diesel fired engines (MME1&2) shall not exceed 30 percent opacity except for periods not exceeding ten consecutive seconds.
 - (e) Visible emissions of any contaminant discharged into the atmosphere from any other single emission source shall not exhibit greater than 20 percent opacity except for one period or periods aggregating not more than six minutes in any one hour of not more than 40 percent opacity.

Table I. Visible and Particulate Emission Limits					
SOURCE ID#	SOURCE DESCRIPTION (CONTROLS)	VISIBLE EMISSION (OPACITY) LIMITS	PARTICULATE EMISSION LIMITS		
		percent	lb/hr	TPY	gr/dscf
BRLSP	Powder Rail & Truck, Granular Truck Bulk Loadout (baghouse)	7	0.8		0.02
BV1	Fuel Coal Silo (baghouse)	20 ^a			0.02
BV2	Bulk Silo P-1 (bin vent)	20 ^a			0.02
BV3	Bulk Silo P-2 (bin vent)	7	0.2 ^b		0.005 ^b
BV4	Bulk Silo P-3 (bin vent)	7	0.4 ^b		0.014 ^b
BV5	Baramix Silo B-2 (bin vent bag filter)	7			0.022
BV6	Granular Receiving Bins (cartridge)	7	0.14		0.02
BV7	Crude Coal Silo (#1) (baghouse)	20 ^a			0.02
BV8	Coal Mill/Silo (#4) (baghouse)	20	0.3		0.02
BV9	Baramix Silo B-3 (bin vent)	20 ^a			0.02
BV10	Baramix Truck Loadout (baghouse)	7			0.02
BV11	Baramix Finished Silo B-7 (baghouse)	7			0.02
BV12	Baramix Blender/Additives (baghouse)	20 ^a			0.02
BV13	200-Mesh Surge Bin (cartridge)	7			0.022

Table 1. Visible and Particulate Emission Limits					
SOURCE ID#	SOURCE DESCRIPTION (CONTROLS)	VISIBLE EMISSION (OPACITY) LIMITS	PARTICULATE EMISSION LIMITS		
		percent	lb/hr	TPY	gr/dscf
BV14	200-Mesh Silo P-4 (cartridge)	7			0.022
BV15	Bore-Gel Silo P-5 (baghouse)	7	0.08		0.02
CDRBH	C&D Reclaim Hopper (baghouse)	7	0.7 ^b		0.007 ^b
CDRLB	C&D Rail Loadout (baghouse)	7	5.6	24.4	0.01
DC3	Baramix Silo B-5 (dixie cup)	20 ^a			0.02
DC4	Baramix Silo B-6 (dixie cup)	20 ^a			0.02
DC5	Baramix Packer Bin (dixie cup)	7			0.022
DBBH	Dry Bin Dust Collector (cartridge)	7	0.5 ^b		0.005 ^b
DDBH	C&D Storage Bunker (baghouse)	7	0.9		0.01
DDBH-2	C&D Storage Bunker (second baghouse)	7	0.4	1.8	0.005
DPJ	200-Mesh Loadout (baghouse)	7	0.8	3.4	0.022
ESP	#1, #2 and #3 Dryers, etc. (electrostatic precipitator)	20 ^a	20.7	90.7	
GBH1	Granular Silo #1 (cartridge)	20	0.2		0.02
GBH2	Granular Silo #2 (cartridge)	20	0.2		0.02
GBH3	Granular Silo #3 (cartridge)	7	0.2		0.02
GSBH	Grout System (cartridge)	7	0.1		0.01
HTRS	Misc. Gas Fired Heaters	20 ^a			
MEGBH	Megatex Screening System (baghouse)	7	1.3		0.01
MK1	Bore-Gel Screens, Packer (baghouse)	7	0.8	3.7	0.01
MM1&2	(2) Mountain Mover Storage Units (filter socks)	7			0.022
MME1&2	(2) Caterpillar 3116 Diesel Engines	30			
PPPSP	Powder Packer/Palletizer (baghouse)	7	2.0	8.9	0.02
Sly4	Baramix Sly Baghouse (baghouse)	20 ^a	1.0	4.4	

^a Visible emissions per F2(b)

^b Limit applies to PM₁₀ emissions

(F3) FUGITIVE EMISSIONS [WAQSR Ch 3, Sec 2; Ch 6, Sec 2 Permits/Waivers MD-603A, AP-2001A, MD-1310, and wv-12930; 40 CFR 60 Subpart 000]

- (a) All unpaved portions of the haul roads, access roads and work areas shall be treated with water and/or chemical dust suppressants on a schedule sufficient to control fugitive dust from vehicular traffic and wind erosion.
- (b) Fugitive emissions associated with the 500 ton storage silo/bucket elevator, granular truck loadout system, any transfer points on belt conveyors, or other affected facility under 40 CFR 60 Subpart 000 shall comply with the opacity limits in Table 3 to Subpart 000. On the date of permit issuance, Subpart 000 required that fugitive emissions from affected facilities that commenced construction, modification, or reconstruction between August 31, 1983 and April 22, 2008 shall not exceed 10 percent opacity; fugitive emissions associated with any affected facility that commenced construction, modification, or reconstruction after April 22, 2008 shall not exceed 7 percent opacity.
- (c) All fugitive emissions sources associated with the C&D Truck Loadout (TLO-5) shall be limited to 20 percent opacity as determined by 40 CFR 60, Appendix A, Method 9.
 - (i) The permittee may load up to 15 trucks per year with a maximum of 525 tons per year of crushed and dried bentonite when railcars are unavailable.
- (d) Fugitive emissions from the C&D Storage Bunker (DDB) and the C&D Rail Loadout (RLO-2) shall be limited to 20 percent in accordance with WAQSR Ch 3, Sec 2.

- (e) Fugitive emissions from any other sources shall be minimized in compliance with the standards in WAQSR Ch 3, Sec 2(f) for construction/demolition activities and handling and transportation of materials.
- (F4) NO_x AND SO₂ EMISSIONS [WAQSR Ch 3, Sec 3; Ch 6, Sec 2 Permits MD-260 and MD-603A]
- (a) NO_x emissions from the ESP stack shall not exceed 83.5 lb/hr and 233.3 TPY.
 - (b) NO_x emissions from each of the heaters (HTRS) shall not exceed 0.20 lb/MMBtu heat input.
 - (c) SO₂ emissions from the ESP stack shall not exceed 52.0 lb/hr and 193.4 TPY.
 - (d) The sulfur content of the #1, #2, and #3 dryer fuel coal shall not exceed 1.2 percent.
- (F5) OPERATING REQUIREMENTS
[WAQSR Ch 6, Sec 2 Permits/Waivers MD-603A and AP-9502; Ch 6, Sec 3(h)(i)(I)]
- (a) On a calendar year basis, the total annual coal usage for the #1, #2 and #3 dryers shall not exceed 28,032 tons.
 - (b) Each diesel engine (MME1&2) shall not exceed 730 hours of annual operation. The permittee shall operate and maintain non-resettable hour meters to demonstrate compliance with the hours limit.
 - (c) Permanent replacement of an engine must be evaluated by the Division under WAQSR Ch 6, Sec 2 prior to such replacement to determine the appropriate permitting action and evaluate the need for additional requirements resulting from the permanent replacement.
 - (d) Should an engine break down or require an overhaul, the permittee may bring on site and operate a temporary replacement engine until repairs are made. The temporary replacement unit shall be identical or similar to the unit replaced, with emission levels at or below those of the unit replaced. The permittee shall notify the Division in writing of such temporary replacement within five working days and include the following:
 - (i) The startup date of the temporary replacement unit; and
 - (ii) A statement regarding the applicability of any New Source Performance Standards (NSPS) in 40 CFR Part 60 and any National Emission Standards for Hazardous Air Pollutants (NESHAPs) in 40 CFR Part 63 for the temporary replacement unit.

Testing and Monitoring Requirements

- (F6) EMISSIONS TESTING [W.S. 35-11-110]
- (a) The Division reserves the right to require additional testing as provided under condition G1 of this permit. The Division shall specify the necessary test method(s) and procedure(s) prior to the test, which may include the following test methods found at 40 CFR 60, Appendix A:
 - (i) For visible emissions, Method 9.
 - (ii) For particulate emissions, Methods 1-4 and 5.
 - (iii) For NO_x emissions, Methods 1-4 and 7 or 7E.
 - (iv) For SO₂ emissions, Methods 1-4 and 6 or 6C.
 - (v) For alternative test methods, or methods used for other pollutants, the approval of the Administrator must be obtained prior to using the test method to measure emissions.
 - (b) Unless otherwise specified, testing shall be conducted in accordance with WAQSR Ch 5, Sec 2(h).
- (F7) Reserved.
- (F8) VISIBLE EMISSIONS AND COMPLIANCE ASSURANCE MONITORING
[WAQSR Ch 6, Sec 2 Permits/Waivers AP-8299, AP-9502, wv-9598, wv-10710, wv-11193, MD-13654 and MD-15587; Ch 6, Sec 3(h)(i)(C)(I); Ch 7, Sec 3(c)(ii)]
- (a) The permittee shall adhere to the compliance assurance monitoring (CAM) plan, attached as Appendix B of this permit, for particulate emissions from the baghouse (BRLSP, BV1, BV2, BV3, BV4, BV7, BV8, BV9, BV10, BV11, BV12, BV15, CDRBH, CDRLB, DC3, DC4, DBBH, DDBH, DDBH-2, DPJ, GSBH, MEGBH, MK1, PPPSP, and Sly4), cartridge filter (BV5, BV6, BV13, BV14 and DC5), and ESP controlled equipment, and shall conduct monitoring as follows:
 - (i) The permittee shall conduct, at minimum once daily, Method 22-like visual observations of each unit listed above, in accordance with the CAM plan, to determine the presence of visible emissions.

- (ii) The visual observations shall be conducted by a person who is educated on the general procedures for determining the presence of visible emissions but not necessarily certified to perform Method 9 observations.
 - (iii) An excursion, defined as observation of any visible emissions from any of these units, shall prompt immediate inspection with subsequent corrective action or shutdown, depending on the cause of the emissions.
 - (iv) The permittee shall maintain the devices in accordance with the Preventative Maintenance and Inspection Plan attached as part of the CAM plan in Appendix B.
 - (v) The permittee shall follow all other applicable requirements under conditions CAM-1 through CAM-4 of this permit.
- (b) The permittee will follow the monitoring as outlined in paragraph (a)(1-iv) of this condition for the granular silo baghouses (GBH1-3), which are not subject to the requirements of CAM.
 - (c) The permittee shall conduct visible observations of each Mountain Mover Storage Unit, including the filtering socks (MM1&2) and conveyor transfer points, on any day the unit is operating, as outlined in paragraph (a)(ii-iii) of this condition.
 - (d) The permittee shall conduct observations of visible emissions from the diesel engines (MME1&2) during periodic availability assurance tests of these sources, at least semi-annually, to assess compliance with the opacity limit under condition F2(e) and to identify maintenance needs.
 - (i) The visual observations shall be conducted by a person who is educated on the general procedures for determining the presence of visible emissions but not necessarily certified to perform Method 9 observations.
 - (ii) Observation of emissions in excess of the limit in condition F2(e) shall prompt corrective action.
 - (e) For periodic monitoring for visible emissions from the heaters (HTRS), the permittee shall monitor the type of fuel used to ensure natural gas is the sole fuel source for these units.

(F9) PARTICULATE EMISSIONS MONITORING

[WAQSR Ch 6, Sec 2 Permits MD-13654 and MD-15587; Ch 6, Sec 3(h)(i)(C)(I); Ch 7, Sec 3(c)(ii)]

Monitoring shall be conducted as follows to assess compliance with the limits specified in condition F2 and to further refine the relationship between emissions and the indicator ranges in the CAM plan:

- (a) The permittee shall measure particulate emissions from the ESP at least once every five years using EPA Reference Methods 1-4 and 5.
- (b) The permittee shall measure PM₁₀ emissions and opacity from the Bulk Silo P-2 bin vent filter (BV3), the Dry Bin Dust Collector (DBBH), and the C&D Reclaim Hopper baghouse (CDRBH) at least once every five years following completion of the initial performance test or the last periodic test. Testing shall be conducted as follows:
 - (i) PM₁₀ emissions: testing shall consist of three 1-hour tests following EPA Reference Methods 1-5 and the requirements of 40 CFR 60 Subpart OOO.
 - (ii) Opacity testing shall follow the requirements of WAQSR Ch 5, Sec 2(i).
 - (iii) For the Bulk Silo P-2 bin vent filter (BV3): if no visible emissions are observed during opacity testing, the opacity test can be used in lieu of particulate emission testing described in (b)(i) above as a demonstration of compliance with the particulate emission limits in condition F2.
- (c) The permittee shall measure the CAM indicators during the tests. Following each test, the permittee shall evaluate the data from the test, together with data from previous testing, to determine if the indicator ranges in the CAM plan should be revised.
- (d) Prior to any performance testing required by paragraph (b) above, a test protocol shall be submitted to the Division for approval, at least 30 days prior to testing.
- (e) Notification of the test dates shall be provided to the Division at least 15 days prior to testing. Results of the tests shall include the information specified under condition F13(a) and shall be submitted to the Division within 45 days of completing the tests.
- (f) Testing shall be conducted in accordance with WAQSR Chapter 5, Section 2(h).

(F10) FUGITIVE EMISSIONS MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I); 40 CFR 60 Subpart OOO]

- (a) The permittee shall monitor the amount of water and/or chemical dust suppressants used to control fugitive dust from vehicular traffic and wind erosion, to demonstrate compliance with condition F3(a).
- (b) For other fugitive emissions, the permittee shall conduct monitoring as follows:

- (i) The permittee shall conduct, at a minimum, quarterly visual observations of the fugitive sources listed in conditions F3(b)-(d) to assess compliance with the opacity limits specified in those conditions.
- (ii) The opacity readings shall be conducted by a qualified observer certified in accordance with Section 3.1 of Method 9 and shall follow the requirements and procedures of Method 9.
- (iii) Emissions in excess of the limits specified in conditions F3(b)-(d) shall prompt maintenance and/or corrective actions.
- (iv) The permittee shall adhere to any additional monitoring or testing requirements of 40 CFR 60 Subpart OOO for fugitive emissions from affected facilities under Subpart OOO.

(F11) NO_x AND SO₂ EMISSIONS MONITORING

[W.S. 35-11-110; WAQSR Ch 6, Sec 2 Permit MD-603A; Ch 6, Sec 3(h)(i)(C)(I)]

- (a) The permittee shall measure NO_x emissions from the ESP stack at least once every calendar year using the methods specified in condition F6(a) for comparison with the hourly emission limit specified in condition F4(a).
 - (i) The permittee shall also measure the amount of coal consumed during testing to calculate a pounds of NO_x emitted per ton of coal burned coal emission factor, using the Division approved "Coal Consumption Plan" attached as Appendix A.
- (b) Each calendar month the permittee shall calculate the NO_x emissions from the ESP for that month based on coal usage and the most recent coal emission factor determined in paragraph (a) of this condition. The permittee shall track the monthly NO_x emissions to demonstrate on a calendar year basis, the annual NO_x emission limit in condition F4(a) is not exceeded.
- (c) The permittee shall measure SO₂ emissions from the ESP stack at least once every five years using the methods specified in condition F6(a) for comparison with the hourly emission limit specified in condition F4(c) and to verify the percent sulfur retention of the dry bentonite.
- (d) The permittee shall monitor the operating hours of the #1, #2 and #3 dryers.
 - (i) The permittee shall use this data, in addition to the coal consumption, coal sulfur content and calculated sulfur retention to calculate the monthly average SO₂ emission rate in lb/hr from the ESP and to demonstrate the limits specified in condition F4(c) are not exceeded. The permittee may assume the percent sulfur retention determined during the most recent testing required by paragraph (c) above.
- (e) Testing shall be conducted in accordance with WAQSR Chapter 5, Section 2(h).

(F12) OPERATIONS MONITORING

[WAQSR Ch 6, Sec 2 Permits/Waivers MD-603A and wv-12930; Ch 6, Sec 3(h)(i)(C)(I)]

- (a) The permittee shall monitor the coal consumed by the #1, #2 and #3 dryers on a monthly basis, to demonstrate on a calendar year basis, the annual coal usage limit specified in condition F5(a) is not exceeded, and to determine NO_x emissions as required by condition F11(b).
- (b) The permittee shall monitor the sulfur content of the coal from each coal shipment to demonstrate the limit in condition F4(d) is not exceeded and to determine SO₂ emissions as required by condition F11(d).
- (c) The permittee shall monitor the operating hours of each diesel engine (MME1&2) utilizing the meters required by condition F5(b).
- (d) The permittee shall monitor the number of trucks loaded and tons of crushed and dried bentonite loaded per calendar year using the C&D Truck Loadout (TLO-5).

Recordkeeping Requirements

(F13) TESTING AND MONITORING RECORDS [WAQSR Ch 6, Sec 3(h)(i)(C)(II)]

- (a) For any testing or monitoring required under conditions F6, F9 and F11, other than Method 9 observations, the permittee shall record, as applicable, the following:
 - (i) The date, place, and time of sampling, measurements, or observations;
 - (ii) The date(s) the analyses or observations were performed;
 - (iii) The company or entity that performed the analyses or observations;
 - (iv) The analytical techniques or methods used;
 - (v) The results of such analyses or observations;

- (vi) The operating conditions as they existed at the time of sampling, measurement, or observations; and
 - (vii) Any corrective actions taken.
 - (b) For any Method 9 observations required by the Division under condition F6, the permittee shall keep field records in accordance with Section 2.2 of Method 9.
 - (c) For the NO_x monitoring required by conditions F11(a)-(b), the permittee shall also record the following:
 - (i) The amount of coal consumed during testing;
 - (ii) The calculated pounds of NO_x emitted per ton of coal factor and how the factor was derived; and
 - (iii) The calculated monthly and annual NO_x emissions from the ESP stack.
 - (d) For the SO₂ monitoring required by conditions F11(c)-(d), the permittee shall also record the following:
 - (i) The amount of coal and sulfur content of the coal used during the test;
 - (ii) The calculated sulfur retention of the bentonite and how it was derived;
 - (iii) The operating hours of the #1, #2, and #3 dryers; and
 - (iv) The calculated monthly average SO₂ emission rate in lb/hr.
 - (e) The permittee shall retain on-site at the facility, the records of each test, measurement, or observation and support information for a period of at least five years from the date of such information.
- (F14) **VISIBLE EMISSIONS, FUGITIVE EMISSIONS AND COMPLIANCE ASSURANCE MONITORING RECORDS** [WAQSR Ch 6, Sec 2 Permits/Waivers AP-8299, AP-9502, wv-9598, wv-10710, wv-11193, MD-13654 and MD-15587; Ch 6, Sec 3(h)(i)(C)(II); Ch 7, Sec 3(i)(ii)]
- (a) For the visible emissions monitoring specified under condition F8, the permittee shall record, as applicable, the following:
 - (i) The date, place, and time of the observation;
 - (ii) The company or entity and individual(s) that performed the observation;
 - (iii) The observation techniques or methods used;
 - (iv) The observation results;
 - (v) The operating conditions as they existed at the time of the observation; and
 - (vi) Any corrective actions taken upon observing visible emissions from the sources observed in accordance with conditions F8(a)-(c), or for the diesel engines (MME1&2) described in condition F8(d), upon detecting non-compliance with opacity limitations.
 - (b) For the CAM required under condition F8(a), the permittee shall also maintain records of:
 - (i) Maintenance activities for the equipment described in condition F8(a) and any deviations from the Preventative Maintenance and Inspection Plan attached as part of the CAM plan in Appendix B.
 - (ii) The date, time, and duration of any excursions as well as the CAM indicator value(s) during each excursion.
 - (iii) Monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to WAQSR Ch 7, Sec 3(h), any activities undertaken to implement a Quality Improvement Plan (QIP), and other supporting information required to be maintained under WAQSR Ch 7, Sec 3.
 - (c) For the monitoring required under condition F8(b), the permittee shall also maintain records of the maintenance activities for the equipment described in condition F8(b), in accordance with paragraphs (b)(i-ii) above.
 - (d) For monitoring required under condition F10(a), the permittee shall maintain records of the amounts of water/dust suppressant applied, and dates of applications, to demonstrate compliance with condition F3(a).
 - (e) For the Method 9 observations required by the Division under condition F10(b), the permittee shall keep field records in accordance with Section 2.2 of Method 9.
 - (f) The permittee shall retain on-site at the facility all records kept in accordance with this condition for a period of at least five years from the date such records are generated.
- (F15) **OPERATING RECORDS**
 [WAQSR Ch 6, Sec 2 Permit/Waivers AP-9502, and wv-12930; Ch 6, Sec 3(h)(i)(C)(II)]
 For the monitoring required under condition F12:
- (a) The permittee shall record the operating hours and the amount of coal consumed by the #1, #2 and #3 dryers on a monthly basis.
 - (b) The permittee shall keep records of the sulfur content of each shipment of feed coal used by the #1, #2 and #3 dryers.

- (c) For the operating hours monitoring required by condition F12(c), the permittee shall record the operating hours of each diesel engine (MME1&2).
- (d) The permittee shall maintain records documenting the date and amount, in tons of crushed and dried bentonite, of each truck loadout when the C&D Truck Loadout (TLO-5) is utilized such that compliance with the annual limit specified in condition F3(c)(i) can be assessed.
- (e) The permittee shall retain on-site at the facility all records kept in accordance with this condition for a period of at least five years from the date such records are generated.

Reporting Requirements

(F16) NOTIFICATION OF TESTING AND SHUTDOWN

[WAQSR Ch 6, Sec 2 Permits MD-13654 and MD-15587; Ch 6, Sec 3(h)(i)(C)(III)]

- (a) Notification of the test dates for the monitoring required by conditions F9 and F11 shall be provided to the Division at least 15 days prior to testing.
- (b) Upon shutdown and removal of an engine from the facility, written notification is required within 15 days of removal. Such notification shall be submitted on a complete Engine Installation/Removal form.

(F17) TEST REPORTS [WAQSR Ch 6, Sec 2 Permits MD-13654 and MD-15587; Ch 6, Sec 3(h)(i)(C)(III)]

- (a) The permittee shall report the results of any emissions tests performed under conditions F6, F9 and F11, within 45 days of completing the tests. The reports shall include the information indicated in condition F13(a).
 - (i) The reports shall also include the evaluation of the CAM indicator ranges as required by condition F9(c). If the evaluation indicates the CAM ranges need to be revised, the permittee shall submit a revised CAM plan to the Division, along with a request to administratively amend this permit, within 60 days of completing the test.
- (b) The reports shall reference this permit condition (F17), and be submitted to the Division in accordance with condition G4.

(F18) SEMIANNUAL MONITORING REPORTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III)]

- (a) The following shall be reported to the Division for each semiannual reporting period from January 1 through June 30, and from July 1 through December 31, within 31 days of the end of each period (by July 31 and January 31, respectively, each year):
 - (i) Summary results of the compliance assurance monitoring required under condition F8(a) for the baghouse, cartridge filter and ESP controlled equipment. This shall include the following:
 - (A) Information on the number, duration, and cause of excursions, as applicable, and the corrective actions taken;
 - (B) Whether the permittee has adhered to the Preventative Maintenance and Inspection Plan attached as part of the CAM plan in Appendix B. Any deviations from this plan must be clearly identified in each report. If the permittee has adhered to the plan during the reporting period, this shall be stated in the report.
 - (C) A description of the action taken to implement a QIP (if required) during the reporting period as specified in Chapter 7, Section 3(h). Upon completion of a QIP, the permittee shall include in the next summary report documentation that the implementation of the plan has reduced the likelihood of similar excursions.
 - (ii) Summary results of the emissions monitoring required under conditions F8(b)-(c). Only events where visible emissions were noted need to be included in the report, with a brief description of corrective actions taken.
 - (iii) Summary results of the emissions monitoring required under conditions F8(d) and F10(b). If noncompliance with opacity limitations is detected, then each opacity measurement and any corrective actions taken upon detecting noncompliance shall be included in the report.
 - (iv) A statement verifying that the emissions units listed in condition F8(e) fired only natural gas during the reporting period.
 - (v) The calendar year-to-date operating hours for the diesel engines (MME1&2).
 - (vi) The calendar year-to-date combined total coal consumption of the #1, #2 and #3 dryers.
 - (vii) The average sulfur content of the coal consumed by the #1, #2 and #3 dryers calculated for each calendar month-to-date.

- (viii) For NO_x and SO₂ emissions:
 - (A) The calculated tons of NO_x produced;
 - (B) The average SO₂ emission rate in pounds per hour (lb/hr) for the ESP calculated for each calendar month; and
 - (C) The calculated tons of SO₂ produced.
 - (ix) The calendar year-to-date total number of trucks and tons of crushed and dried bentonite loaded using the C&D Truck Loadout (TLO-5). If TLO-5 was not utilized during the reporting period, this shall be stated in the report.
 - (b) All instances of deviations from the conditions of this permit must be clearly identified in each report.
 - (c) The semiannual reports shall be submitted in accordance with condition G4 of this permit.
- (F19) GREENHOUSE GAS REPORTS [W.S. 35-11-110]
 The permittee shall submit to the Division a summary of any report(s) required to be submitted to the EPA under 40 CFR Part 98.
- (a) The reports shall be submitted to the Division within 60 days of submission to EPA, in a format as specified by the Division.
 - (b) The reports shall be submitted in accordance with condition G4(a)(i) of this permit, to the attention of the Division's Emission Inventory Program. A copy need not be sent to the DEQ Air Quality contact.
- (F20) REPORTING EXCESS EMISSIONS & DEVIATIONS FROM PERMIT REQUIREMENTS
 [WAQSR Ch 6, Sec 3(h)(i)(C)(III)]
- (a) General reporting requirements are described under the General Conditions of this permit. The Division reserves the right to require reports as provided under condition G1 of this permit.
 - (b) Emissions which exceed the limits specified in this permit and which are not reported under a different condition of this permit shall be reported annually with the emission inventory unless specifically superseded by condition G17, condition G19, or other condition(s) of this permit. The probable cause of such exceedance, the duration of the exceedance, the magnitude of the exceedance, and any corrective actions or preventative measures taken shall be included in this annual report. For sources and pollutants which are not continuously monitored, if at any time emissions exceed the limits specified in this permit by 100 percent, or if a single episode of emission limit exceedance spans a period of 24 hours or more, such exceedance shall be reported to the Division within one working day of the exceedance. (Excess emissions due to an emergency shall be reported as specified in condition G17. Excess emissions due to unavoidable equipment malfunction shall be reported as specified in condition G19.)
 - (c) Any other deviation from the conditions of this permit shall be reported to the Division in writing within 30 days of the deviation or discovery of the deviation.

WAQSR CHAPTER 5, SECTION 2 NEW SOURCE PERFORMANCE STANDARDS (NSPS) AND

**40 CFR 60 SUBPART OOO REQUIREMENTS FOR
NONMETALLIC MINERAL PROCESSING PLANTS**

SUBPART OOO REQUIREMENTS

[40 CFR 60 Subparts A and OOO; WAQSR Ch 5, Sec 2; Ch 6, Sec 2 Permits/Waivers AP-J67, MD-603A, AP-1145 Corrected, AP-1652, AP-2174, AP-8299, AP-8512, AP-9502, AP-9598, MD-13654 and MD-15587]

The permittee shall meet all applicable requirements of 40 CFR 60 Subparts A and OOO and WAQSR Ch 5, Sec 2 as they apply to affected facilities in fixed or portable nonmetallic mineral processing plants (each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station that commenced construction, modification, or reconstruction after August 31, 1983), as specified under §60.670. On April 30, 2015, based on information provided to the Division by the permittee, affected facilities included the sources listed in Table II.

TABLE II: 40 CFR 60 Subpart OOO Sources			
Commenced construction, modification or reconstruction between August 31, 1983 and April 22, 2008		Commenced construction, modification or reconstruction on or after April 22, 2008	
SOURCE ID	SOURCE DESCRIPTION	SOURCE ID	SOURCE DESCRIPTION
BRLSP	Powder Rail & Truck, Granular Truck Bulk Loadout	BV3	Bulk Silo P-2
BV5	Baramix Silo B-2	BV4	Bulk Silo P-3
BV6	Granular Receiving Bins	CDRBH	C&D Reclaim Hopper
BV10	Baramix Truck Loadout	DBBH	Dry Bin Dust Collector
BV11	Baramix Finished Silo B-7	GSBH	Grout System
BV13	200 Mesh Surge Bin	MEGBH	Megatex Screening System
BV14	200 Mesh Silo P-4	PPSP *	Powder Packer/Palletizer
BV15	Bore-Gel Silo P-5	MT-7	C&D Reclaim material transfer (fugitives)
DC5	Baramix Packer Bin		
DPJ	200 Mesh Loadout		
GBH3	Granular Silo #3		
MK1	Bore-Gel Screens, Packer		
MM1&2	Mountain Mover Storage Units 1 & 2		
MT-5	Mountain Mover material transfer (fugitives)		
RLO-4	Baramix Rail Loadout (fugitives)		
TLO-1	Powder Truck Loadout (fugitives)		
TLO-2	Granular Truck Loadout (fugitives)		
TLO-3	Baramiz Truck Loadout (fugitives)		
TLO-4	200 Mesh Truck Loadout (fugitives)		

* On March 6, 2013, PPPSP was exempt from the requirements of §§60.672, 60.674, and 60.675 per §60.670(d)(1).

The subparts are available at <http://www.gpoaccess.gov/cfr/retrieve.html>, or from the Division upon request.

WAQSR CHAPTER 5, SECTION 2 NEW SOURCE PERFORMANCE STANDARDS (NSPS) AND

**40 CFR 60 SUBPART III REQUIREMENTS FOR
STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES**

SUBPART III REQUIREMENTS [40 CFR 60 Subparts A and III; WAQSR Ch 5, Sec 2]

As applicable, the permittee shall meet the requirements of 40 CFR 60 Subparts A and III and WAQSR Ch 5, Sec 2, as they apply to stationary compression ignition (CI) internal combustion engines. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator. An affected source is defined at §60.4200.

On April 30, 2015, according to information provided to the Division by the permittee, the Caterpillar diesel engines (MME1&2) must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart III. However, on April 30, 2015, engines MME1&2 had no applicable requirements from Subpart III because of their dates of manufacture.

The subparts are available at <http://www.gpoaccess.gov/cfr/retrieve.html>, or from the Division upon request.

**WAQSR CHAPTER 5, SECTION 3 NATIONAL EMISSION STANDARDS FOR
HAZARDOUS AIR POLLUTANTS (NESHAP) AND**

**40 CFR 63 SUBPART ZZZZ REQUIREMENTS FOR
STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES**

SUBPART ZZZZ REQUIREMENTS [40 CFR 63 Subparts A and ZZZZ; WAQSR Ch 5, Sec 3]

The permittee shall meet all requirements of 40 CFR 63 Subparts A and ZZZZ and WAQSR Ch 5, Sec 3 as they apply to each affected source as indicated in §63.6590(a). An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand. (As required by condition F5(d), if an engine is replaced or reconstructed, subpart applicability will need to be re-evaluated and a statement regarding applicability submitted to the Division.) This facility is currently identified as an area source of HAP emissions. Affected sources at this facility include the Caterpillar diesel engines (MME1&2).

The subparts are available at <http://www.gpoaccess.gov/cfr/retrieve.html>, or from the Division upon request.

WAQSR CHAPTER 7, SECTION 3

COMPLIANCE ASSURANCE MONITORING (CAM) REQUIREMENTS

WAQSR Ch 7, Sec 3 is available at <http://soswy.state.wy.us/Rules/> or from the Division upon request.

- (CAM-1) **COMPLIANCE ASSURANCE MONITORING REQUIREMENTS [WAQSR Ch 7, Sec 3(b) and (c)]**
The permittee shall follow the CAM plan attached as Appendix B of this permit and meet all CAM requirements of WAQSR Chapter 7, Section 3 as they apply to the baghouse, cartridge filter and ESP controlled equipment listed in condition F8(a). Compliance with the source specific monitoring, recordkeeping, and reporting requirements of this permit meets the monitoring, recordkeeping, and reporting requirements of WAQSR Ch 7, Sec 3, except for additional requirements specified under conditions CAM-2 through CAM-4.
- (CAM-2) **OPERATION OF APPROVED MONITORING [WAQSR Ch 7, Sec 3(g)]**
- (a) At all times, the permittee shall maintain the monitoring under this section, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
 - (b) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities, the permittee shall conduct all monitoring in continuous operation (or at all required intervals) at all times that the pollutant specific emissions unit is operating.
 - (c) Upon detecting an excursion, the permittee shall restore operation of the pollutant-specific emission unit to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices. The response shall include minimizing the period of any start-up, shutdown or malfunction and taking any corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion.
 - (d) If the permittee identifies a failure to achieve compliance with an emission limit for which the monitoring did not provide an indication of an excursion while providing valid data, or the results of compliance or performance testing documents a need to modify the existing indicator ranges, the permittee shall promptly notify the Division and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes.
- (CAM-3) **QUALITY IMPROVEMENT PLAN (QIP) REQUIREMENTS [WAQSR Ch 7, Sec 3(h)]**
- (a) If the Division or the EPA Administrator determines, based on available information, that the permittee has used unacceptable procedures in response to an excursion or exceedance, the permittee may be required to develop and implement a Quality Improvement Plan (QIP).
 - (b) If required, the permittee shall maintain a written Quality Improvement Plan (QIP) and have it available for inspection.
 - (c) The plan shall include procedures for conducting one or more of the following:
 - (i) Improved preventative maintenance practices.
 - (ii) Process operation changes.
 - (iii) Appropriate improvements to control methods.
 - (iv) Other steps appropriate to correct control.
 - (v) More frequent or improved monitoring (in conjunction with (i) - (iv) above).
 - (d) If a QIP is required, the permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the Division if the period for completing the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
 - (e) Following implementation of a QIP, upon any subsequent determination under paragraph (a) above, the Division may require the permittee to make reasonable changes to the QIP if the QIP failed to address the cause of control device problems, or failed to provide adequate procedures for correcting control device problems as expeditiously as practicable.
 - (f) Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limit(s) or any existing monitoring, testing, reporting, or recordkeeping requirements that may be applicable to the facility.
- (CAM-4) **SAVINGS PROVISIONS [WAQSR Ch 7, Sec 3(j)]**
Nothing in the CAM regulations shall excuse the permittee from compliance with any existing emission limit or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may be applicable to the facility.

COMPLIANCE CERTIFICATION AND SCHEDULE

Compliance Certification [WAQSR Ch 6, Sec 3(h)(iii)(E)]

- (C1) (a) The permittee shall submit by January 31 each year a certification addressing compliance with the requirements of this permit. The certification shall be submitted as a stand-alone document separate from any monitoring reports required under this permit.
- (b) (i) For visible and particulate emissions from the ESP, the permittee shall assess compliance with condition F2 by conducting testing required by condition F9(a) and monitoring required by condition F8(a).
- (ii) For visible and particulate emissions from the other sources listed in Table I of this permit and from the heaters (HTRS), the permittee shall assess compliance with condition F2 by conducting the testing and monitoring required by conditions F8 and F9(b).
- (iii) For fugitive emissions from haul roads and work areas, the permittee shall assess compliance with condition F3(a) by conducting monitoring required by condition F10(a), and by reviewing records kept in accordance with condition F14.
- (iv) For fugitive emissions from sources subject to Subpart OOO, the permittee shall assess compliance with condition F3(b) by conducting monitoring required by condition F10(b).
- (v) For fugitive emissions from the C&D Truck Loadout (TLO-5), C&D Storage Bunker (DDB), and C&D Rail Loadout (RLO-2), the permittee shall assess compliance with conditions F3(c)-(d) by conducting the monitoring required by conditions F10(b) and F12(d), and by reviewing records kept in accordance with conditions F14 and F15(d).
- (vi) For NO_x emissions, the permittee shall assess compliance with condition F4(a) by conducting the monitoring required by conditions F11(a)-(b).
- (vii) For SO₂ emissions, the permittee shall assess compliance with condition F4(c) by conducting monitoring required by conditions F11(c)-(d).
- (viii) For sulfur content of the coal and coal usage, the permittee shall assess compliance with conditions F4(d) and F5(a) by conducting monitoring required by conditions F12(a)-(b).
- (ix) For engine operating hours, the permittee shall assess compliance with condition F5(b) by conducting monitoring required by condition F12(c).
- (x) For greenhouse gas reporting, the permittee shall assess compliance with condition F19 by verifying that reports were submitted in accordance with condition F19(b).
- (xi) For any unit subject to 40 CFR 60 Subpart OOO, the permittee shall assess compliance with Subpart OOO by conducting any applicable testing and monitoring required by §§60.674 and 60.675, and by reviewing the records required by §60.676.
- (xii) For any engine subject to 40 CFR 60 Subpart IIII, the permittee shall assess compliance with Subpart IIII by conducting any applicable testing and monitoring required by §§60.4209, 60.4211, 60.4212, and 60.4213, and by reviewing the records required by §§60.4211 and 60.4214.
- (xiii) The permittee shall assess compliance with Part 63 Subpart ZZZZ by conducting any applicable testing and monitoring required by §§63.6610 through 63.6640 and by reviewing the records required by §§63.6655 and 63.6665.
- (c) The compliance certification shall include:
- (i) The permit condition or applicable requirement that is the basis of the certification;
- (ii) The current compliance status;
- (iii) Whether compliance was continuous or intermittent; and
- (iv) The methods used for determining compliance.
- (d) For any permit conditions or applicable requirements for which the source is not in compliance, the permittee shall submit with the compliance certification a proposed compliance plan and schedule for Division approval.
- (e) The compliance certification shall be submitted to the Division in accordance with condition G4 of this permit and to the Assistant Regional Administrator, Office of Enforcement, Compliance, and Environmental Justice (8ENF-T), U.S. EPA - Region VIII, 1595 Wynkoop Street, Denver, CO 80202-1129.
- (f) Determinations of compliance or violations of this permit are not restricted to the monitoring requirements listed in paragraph (b) of this condition; other credible evidence may be used.

Compliance Schedule [WAQSR Ch 6, Sec 3(h)(iii)(C) and (D)]

- (C2) The permittee shall continue to comply with the applicable requirements with which the permittee has certified that it is already in compliance.
- (C3) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.

GENERAL PERMIT CONDITIONS

Powers of the Administrator: [W.S. 35-11-110]

- (G1) (a) The Administrator may require the owner or operator of any point source to complete plans and specifications for any application for a permit required by the Wyoming Environmental Quality Act or regulations made pursuant thereto and require the submission of such reports regarding actual or potential violations of the Wyoming Environmental Quality Act or regulations thereunder.
- (b) The Administrator may require the owner or operator of any point source to establish and maintain records; make reports; install, use and maintain monitoring equipment or methods; sample emissions, or provide such other information as may be reasonably required and specified.

Permit Renewal and Expiration: [WAQSR Ch 6, Sec 3(c)(i)(C), (d)(ii), (d)(iv)(B), and (h)(i)(B)] [W.S. 35-11-206(f)]

- (G2) This permit is issued for a fixed term of five years. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted at least six months prior to the date of permit expiration. If the permittee submits a timely and complete application for renewal, the permittee's failure to have an operating permit is not a violation of WAQSR Chapter 6, Section 3 until the Division takes final action on the renewal application. This protection shall cease to apply after a completeness determination if the applicant fails to submit by the deadline specified in writing by the Division any additional information identified as being needed to process the application.

Duty to Supplement: [WAQSR Ch 6, Sec 3(c)(iii)]

- (G3) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after this permit is issued.

Submissions: [WAQSR Ch 6, Sec 3(c)(iv)] [W.S. 35-11-206(c)]

- (G4) Any application form, report, or certification submitted shall be certified as being true, accurate, and complete by a responsible official.
- (a) Submissions to the Division including reports, certifications, and emission inventories required under this permit shall be submitted either:
- (i) Electronically through the Division's IMPACT system (<https://airimpact.wyo.gov>); or
 - (ii) As separate, stand-alone documents sent to:
 - (A) Administrator, Air Quality Division
122 West 25th Street
Cheyenne, Wyoming 82002
 - (B) Unless otherwise noted elsewhere in this permit, a copy of each submission shall also be sent to the DEQ Air Quality Contact listed on page 3 of this permit.
- (b) Submissions to EPA.
- (i) Each certification required under condition C1 of this permit shall also be sent to:
Assistant Regional Administrator
Office of Enforcement, Compliance, and Environmental Justice (8ENF-T)
U.S. EPA - Region VIII
1595 Wynkoop Street
Denver, CO 80202-1129.
 - (ii) All other required submissions to EPA shall be sent to:
Office of Partnerships and Regulatory Assistance
Air and Radiation Program (8P-AR)
U.S. EPA - Region VIII
1595 Wynkoop Street
Denver, CO 80202-1129

Changes for Which No Permit Revision Is Required: [WAQSR Ch 6, Sec 3(d)(iii)]

- (G5) The permittee may change operations without a permit revision provided that:
- (a) The change is not a modification under any provision of title I of the Clean Air Act;
 - (b) The change has met the requirements of Chapter 6, Section 2 of the WAQSR and is not a modification under Chapter 5, Section 2 or Chapter 6, Section 4 of the WAQSR and the changes do not exceed the emissions allowed under the permit (whether expressed therein as a rate of emissions or in terms of total emissions); and
 - (c) The permittee provides EPA and the Division with written notification at least 14 days in advance of the proposed change. The permittee, EPA, and the Division shall attach such notice to their copy of the relevant permit. For each such change, the written notification required shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change. The permit shield, if one exists for this permit, shall not apply to any such change made.

Transfer of Ownership or Operation: [WAQSR Ch 6, Sec 3(d)(v)(A)(IV)]

- (G6) A change in ownership or operational control of this facility is treated as an administrative permit amendment if no other change in this permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Division.

Reopening for Cause: [WAQSR Ch 6, Sec 3(d)(vii)] [W.S. 35-11-206(f)(ii) and (iv)]

- (G7) The Division will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:
- (a) Additional applicable requirements under the Clean Air Act or the WAQSR that become applicable to this source if the remaining permit term is three or more years. Such reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No 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 have been extended.
 - (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - (c) The Division or 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 Division or EPA determines that the permit must be revised or revoked to assure compliance with applicable requirements.

Annual Fee Payment: [WAQSR Ch 6, Sec 3(f)(i), (ii), and (vi)] [W.S. 35-11-211]

- (G8) The permittee shall, as a condition of continued operations, submit an annual fee to the Division as established in Chapter 6, Section 3 (f) of the WAQSR. The Division shall give written notice of the amount of fee to be assessed and the basis for such fee assessment annually. The assessed fee is due on receipt of the notice unless the fee assessment is appealed pursuant to W.S. 35-11-211(d). If any part of the fee assessment is not appealed it shall be paid to the Division on receipt of the written notice. Any remaining fee which may be due after completion of the appeal is immediately due and payable upon issuance of the Council's decision. Failure to pay fees owed the Division is a violation of Chapter 6, Section 3 (f) and W.S. 35-11-203 and may be cause for the revocation of this permit.

Annual Emissions Inventories: [WAQSR Ch 6, Sec 3(f)(v)(G)]

- (G9) The permittee shall submit an annual emission inventory for this facility to the Division for fee assessment and compliance determinations within 60 days following the end of the calendar year. The emissions inventory shall be in a format specified by the Division and be submitted in accordance with condition G4(a) of this permit.

Severability Clause: [WAQSR Ch 6, Sec 3(h)(i)(E)]

(G10) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Compliance: [WAQSR Ch 6, Sec 3(h)(i)(F)(I) and (II)] [W.S. 35-11-203(b)]

(G11) The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Air Act, Article 2 of the Wyoming Environmental Quality Act, and the WAQSR and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. 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.

Permit Actions: [WAQSR Ch 6, Sec 3(h)(i)(F)(III)] [W.S. 35-11-206(f)]

(G12) 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.

Property Rights: [WAQSR Ch 6, Sec 3(h)(i)(F)(IV)]

(G13) This permit does not convey any property rights of any sort, or any exclusive privilege.

Duty to Provide Information: [WAQSR Ch 6, Sec 3(h)(i)(F)(V)]

(G14) The permittee shall furnish to the Division, within a reasonable time, any information that the Division 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 Division copies of records required to be kept by the permit, including information claimed and shown to be confidential under W.S. 35-11-1101 (a) of the Wyoming Environmental Quality Act. Upon request by the Division, the permittee shall also furnish confidential information directly to EPA along with a claim of confidentiality.

Emissions Trading: [WAQSR Ch 6, Sec 3(h)(i)(H)]

(G15) No permit revision is required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

Inspection and Entry: [WAQSR Ch 6, Sec 3(h)(iii)(B)] [W.S. 35-11-206(c)]

(G16) Authorized representatives of the Division, upon presentation of credentials and other documents as may be required by law, shall be given permission to:

- (a) 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 any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) sample or monitor any substances or parameters at any location, during operating hours, for the purpose of assuring compliance with this permit or applicable requirements.

Excess Emissions Due to an Emergency: [WAQSR Ch 6, Sec 3(l)]

(G17) The permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency, as defined in Ch 6, Sec 3(l)(i) of the WAQSR. To do so, the permittee shall demonstrate the affirmative defense of emergency 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 emissions standards, or other requirements in this permit;
- (d) The permittee submitted notice of the emergency to the Division within one working day of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

Diluting and Concealing Emissions: [WAQSR Ch 1, Sec 4]

- (G18) No person shall cause or permit the installation or use of any device, contrivance, or operational schedule which, without resulting in reduction of the total amount of air contaminant released to the atmosphere, shall dilute or conceal an emission from a source. This condition shall not apply to the control of odors.

Unavoidable Equipment Malfunction: [WAQSR Ch 1, Sec 5]

- (G19) (a) Any source believing that any emissions in excess of established regulation limits or standards resulted from an unavoidable equipment malfunction, shall notify the Division within 24 hours of the incident via telephone, electronic mail, fax, or other similar method. A detailed description of the circumstances of the incident as described in paragraph 5(a)(i)(A) Chapter 1, including a corrective program directed at preventing future such incidents, must be submitted within 14 days of the onset of the incident. The Administrator may extend this 14-day time period for cause.
- (b) The burden of proof is on the owner or operator of the source to provide sufficient information to demonstrate that an unavoidable equipment malfunction occurred.

Fugitive Dust: [WAQSR Ch 3, Sec 2(f)]

- (G20) The permittee shall minimize fugitive dust in compliance with standards in Ch 3, Sec 2(f) of WAQSR for construction/demolition activities, handling and transportation of materials, and agricultural practices.

Carbon Monoxide: [WAQSR Ch 3, Sec 5]

- (G21) The emission of carbon monoxide in stack gases from any stationary source shall be limited as may be necessary to prevent ambient standards from being exceeded.

Asbestos: [WAQSR Ch 3, Sec 8]

- (G22) The permittee shall comply with emission standards for asbestos during abatement, demolition, renovation, manufacturing, spraying and fabricating activities.
 - (a) No owner or operator shall build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous dilutants to achieve compliance with a visible emissions standard, and the piecemeal carrying out of an operation to avoid coverage by a standard that applies only to operations larger than a specified size.
 - (b) All owners and operators conducting an asbestos abatement project, including an abatement project on a residential building, shall be responsible for complying with Federal requirements and State standards for packaging, transportation, and delivery to an approved waste disposal facility as provided in paragraph (m) of Ch 3, Sec 8.
 - (c) The permittee shall follow State and Federal standards for any demolition and renovation activities conducted at this facility, including:
 - (i) A thorough inspection of the affected facility or part of the facility where the demolition or renovation activity will occur shall be conducted to determine the presence of asbestos, including Category I and Category II non-friable asbestos containing material. The results of the inspection will determine which notification and asbestos abatement procedures are applicable to the activity.
 - (ii) The owner or operator shall follow the appropriate notification requirements of Ch 3, Sec 8(i)(ii).
 - (iii) The owner or operator shall follow the appropriate procedures for asbestos emissions control, as specified in Chapter 3, Section 8(i)(iii).
 - (d) No owner or operator of a facility may install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. The provisions of this paragraph do not apply to spray-applied insulating materials regulated under paragraph (j) of Ch 3, Sec 8.

- (e) The permittee shall comply with all other requirements of WAQSR Ch 3, Sec 8.

Open Burning Restrictions: [WAQSR Ch 10, Sec 2]

- (G23) The permittee conducting an open burn shall comply with all rules and regulations of the Wyoming Department of Environmental Quality, Division of Air Quality, and with the Wyoming Environmental Quality Act.
- (a) No person shall burn prohibited materials using an open burning method, except as may be authorized by permit. *"Prohibited materials"* means substances including, but not limited to; natural or synthetic rubber products, including tires; waste petroleum products, such as oil or used oil filters; insulated wire; plastic products, including polyvinyl chloride ("PVC") pipe, tubing and connectors; tar, asphalt, asphalt shingles, or tar paper; railroad ties; wood, wood waste, or lumber that is painted or chemically treated; explosives or ammunition; batteries; hazardous waste products; asbestos or asbestos containing materials; or materials which cause dense smoke discharges, excluding refuse and flaring associated with oil and gas well testing, completions and well workovers.
- (b) No person or organization shall conduct or cause or permit open burning for the disposal of trade wastes, for a salvage operation, for the destruction of fire hazards if so designated by a jurisdictional fire authority, or for firefighting training, except when it can be shown by a person or organization that such open burning is absolutely necessary and in the public interest. Any person or organization intending to engage in such open burning shall file a request to do so with the Division.

Sulfur Dioxide Emission Trading and Inventory Program [WAQSR Ch 14]

- (G24) Any BART (Best Available Retrofit Technology) eligible facility, or facility which has actual emissions of SO₂ greater than 100 tpy in calendar year 2000 or any subsequent year, shall comply with the applicable requirements of WAQSR Ch 14, Sections 1 through 3, with the exceptions described in sections 2(c) and 3(a).

Stratospheric Ozone Protection Requirements: [40 CFR Part 82]

- (G25) The permittee shall comply with all applicable Stratospheric Ozone Protection Requirements, including but not limited to:
- (a) *Standards for Appliances* [40 CFR Part 82, Subpart F]
The permittee shall comply with the standards for recycling and emission reduction pursuant to 40 CFR Part 82, Subpart F - Recycling and Emissions Reduction, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
- (i) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
- (ii) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
- (iii) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
- (iv) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like appliance" is defined at §82.152).
- (v) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.166.
- (vi) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- (vii) The permittee shall comply with all other requirements of Subpart F.
- (b) *Standards for Motor Vehicle Air Conditioners* [40 CFR Part 82, Subpart B]
If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the airtight sealed refrigeration system used as refrigerated cargo, or the system used on passenger buses using HCFC-22 refrigerant.

STATE ONLY PERMIT CONDITIONS

The conditions listed in this section are State only requirements and are not federally enforceable.

Ambient Standards

(S1) The permittee shall operate the emission units described in this permit such that the following ambient standards are not exceeded:

POLLUTANT	STANDARD	CONDITION	WAQSR CH. 2, SEC.
PM ₁₀ particulate matter	50 micrograms per cubic meter	annual arithmetic mean	2 (a)
	150 micrograms per cubic meter	24-hr average concentration with not more than one exceedance per year	
PM _{2.5} particulate matter	15 micrograms per cubic meter	annual arithmetic mean	2 (b)
	35 micrograms per cubic meter	98 th percentile 24-hr average concentration	
Nitrogen dioxide	53 parts per billion	annual average concentration	3
	100 parts per billion	three-year average of the annual 98 th percentile of the daily maximum 1-hr average concentration	
	0.053 parts per million	annual arithmetic mean	
Sulfur dioxide	75 parts per billion	three-year average of the annual (99 th percentile) of the daily max 1-hr average	4
	0.5 parts per million	3-hr blocks not to be exceeded more than once per calendar year	
Carbon monoxide	10 milligrams per cubic meter	max 8-hr concentration with not more than one exceedance per year	5
	40 milligrams per cubic meter	max 1-hr concentration with not more than one exceedance per year	
Ozone	0.075 parts per million	three-year average of the annual fourth-highest daily maximum 8-hr average concentration	6
Hydrogen sulfide	70 micrograms per cubic meter	½ hour average not to be exceeded more than two times per year	7
	40 micrograms per cubic meter	½ hour average not to be exceeded more than two times in any five consecutive days	
Suspended sulfate	0.25 milligrams SO ₃ per 100 square centimeters per day	maximum annual average	8
	0.50 milligrams SO ₃ per 100 square centimeters per day	maximum 30-day value	
Lead and its compounds	0.15 micrograms per cubic meter	maximum arithmetic 3-month mean concentration for a 3-year period	10

*Exceedances of these standards shall be determined using the procedures in 40 CFR 50.

Hydrogen Sulfide: [WAQSR Ch 3, Sec 7]

- (S2) Any exit process gas stream containing hydrogen sulfide which is discharged to the atmosphere from any source shall be vented, incinerated, flared or otherwise disposed of in such a manner that ambient sulfur dioxide and hydrogen sulfide standards are not exceeded.

Odors: [WAQSR Ch 2, Sec 11]

- (S3) (a) The ambient air standard for odors from any source shall be limited to an odor emission at the property line which is undetectable at seven dilutions with odor free air as determined by a scentometer as manufactured by the Barnebey-Cheney Company or any other instrument, device, or technique designated by the Division as producing equivalent results. The occurrence of odors shall be measured so that at least two measurements can be made within a period of one hour, these determinations being separated by at least 15 minutes.
- (b) Odor producing materials shall be stored, transported, and handled in a manner that odors produced from such materials are confined and that accumulation of such materials resulting from spillage or other escape is prevented.

SUMMARY OF SOURCE EMISSION LIMITS AND REQUIREMENTS

Source ID#: ESP

Source Description: Electrostatic Precipitator controlling #1, #2 and #3 Dryers, Raymond Mills, Granular Packer, Granular Loadout and miscellaneous dust pickup points

Pollutant	Emission Limit / Work Practice Standard	Corresponding Regulations	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity; 20.7 lb/hr, 90.7 TPY [F2]	WAQSR Ch 3, Sec 2; Ch 6, Sec 2 Permit MD-260	Testing once every 5 years [F9] Additional testing if required [F6]	Compliance Assurance Monitoring (CAM) - monitor visible emissions daily, follow CAM maintenance [F8]	Record CAM results and corrective action [F14]	Report test results [F17] Report CAM results semiannually [F18] Report excess emissions and permit deviations [F20]
SO ₂	52.0 lb/hr, 193.4 TPY; 1.2 percent coal sulfur content [F4] 28,032 TPY annual coal usage for the #1, #2 and #3 dryers [F5]	WAQSR Ch 6, Sec 2 Permits MD-260 and MD-603A	Testing once every 5 years [F11] Additional testing if required [F6]	Monitor dryer operating hours [F11] Monitor coal consumption and feed coal sulfur content [F12]	Record testing [F13] Record dryer operating hours, coal consumption, feed coal sulfur content [F15]	Report test results [F17] Report semiannually the monthly average SO ₂ emission rates for the previous 6 months [F18] Report excess emissions and permit deviations [F20]
NO _x	83.5 lb/hr, 233.3 tpy [F4] 28,032 TPY annual coal usage for the #1, #2 and #3 dryers [F5]	WAQSR Ch 6, Sec 2 Permits MD-603A	Testing once every year [F11] Additional testing if required [F6]	Monitor annual NO _x emissions [F11] Monitor monthly and annually coal consumed [F12]	Record testing [F13] Record coal consumed [F15]	Report test results [F17] Report semiannually the NO _x emissions [F18] Report semiannually the coal consumption [F18] Report excess emissions and permit deviations [F20]

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

Source ID#: BRLSP, BV3, BV4, BV5, BV6, BV10, BV11, BV13, BV14, BV15, CDRBH, DBBH, DC5, DPJ, GBH3, GSBH, MEGBH, MK1, MM1&2, PPPSP
Source Description: Powder Rail & Truck/Granular Truck Loadout, Bulk Silo P-2, Bulk Silo P-3, Baramix Silo B-2, Granular Receiving Bins, Baramix Truck Loadout, Baramix Finished Silo B-7, 200 Mesh Surge Bin, 200 Mesh Silo P-4, Bore-Gel Silo P-5, C&D Reclaim Hopper, Dry Bin Dust Collector, Baramix Packer Bin, 200 Mesh Loadout, Granular Silo #3, Grout System Baghouse, Megatex Screening System, Bore-Gel Baghouse, Mountain Mover Storage Units 1 & 2, Powder Packer/Palletizer

Pollutant	Emissions Limit/ Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	7 percent opacity [F2] Particulate limits [F2]	WAQSR Ch 3, Sec 2; Ch 6, Sec 2 Permits and Waivers MD-260, MD-603A, AP-J67, AP-1145 Corrected, AP-1652, AP-2174, AP-8512, AP-8299, AP-9502, wv-9598, wv-12269, MD-13654 and MD-15587; 40 CFR 60 Subpart OOO	Testing if required [F6]	Monitor visible emissions daily, follow CAM maintenance [F8] (CAM applies to all but GBH3, MM1 and MM2) Every 5 years testing for BV3, DBBH and CDRBH [F9]	Record CAM results and corrective action [F14] Record test results [F13]	Report test results [F17] Report monitoring results semiannually [F18] Report excess emissions and permit deviations [F20]
Particulate	WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & OOO					

Source ID#: CDRLB, DDBH, DDBH-2 **Source Description:** C&D Rail Loadout, C&D Storage Bunker

Pollutant	Emissions Limit/ Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	7 percent opacity and particulate emission limits [F2]	WAQSR Ch 3, Sec 2; Ch 6, Sec 2 Permits and Waivers MD-1310, AP-2001A, wv-10710	Testing if required [F6]	Monitor visible emissions daily, follow CAM maintenance [F8]	Record CAM results and corrective action [F14] Record test results [F13]	Report test results [F17] Report monitoring results semiannually [F18] Report excess emissions and permit deviations [F20]

Source ID#: BV1, BV2, BV7, BV8, BV9, BV12, DC3, DC4, GBH1, GBH2, Sly4

Source Description: Fuel Coal Silo, Bulk Silo P-1, Crude Coal Silo (#1), Coal Mill/Silo (#4), Baramix Silo B-3, Baramix Blender/Additives, Baramix Silo B-5, Baramix Silo B-6, Granular Silo #1, Granular Silo #2, Baramix Sly Baghouse

Pollutant	Emissions Limit/ Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity and particulate emission limits [F2]	WAQSR Ch 3, Sec 2; Ch 6, Sec 2 Permits and Waivers MD-260, AP-1145 Corrected, AP-1657, AP-1656, wv-11193, MD-13654	Testing if required [F6]	Monitor visible emissions daily, follow CAM maintenance [F8] (CAM applies to all but GBH1 and GBH2)	Record CAM results and corrective action [F14] Record test results [F13]	Report test results [F17] Report monitoring results semiannually [F18] Report excess emissions and permit deviations [F20]

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

Source ID#: MME1 & 2 Source Description: (2) Caterpillar 3116 Diesel Engines

Pollutant	Emissions Limit / Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	30 percent opacity [F2] Annual hours limit. Maintain hour meters. [F5]	WAQSR Ch 3, Sec 2, and Ch 6, Sec 2 waiver AP-9502	Testing if required [F6]	Semiannual observations [F8] Maintain and operate hour meters on the engines [F12]	Record monitoring results and corrective action [F14] Record hours of operation [F15]	Report monitoring results semiannually [F18] Report hours of operation semiannually [F18] Report excess emissions and permit deviations [F20]
Additional NO _x , CO, PM and HC	WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & III, as applicable					
HAPs	WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ					

Source ID#: HR1-6, SP1-2, MT1-4, MT-6, MT-8, CB1-2, DDB, RLO1-3

Source Description: Fugitive dust from haul roads, stockpiles, material transfers, storage bunkers, and open rail loadouts

Pollutant	Emissions Limit / Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	Apply water and/or chemical suppressants to haul roads, access roads and work areas; All other fugitives minimized per WAQSR Ch 3, Sec 2(f) [F3]	WAQSR Ch 3 Sec 2 and Ch 6, Sec 2 Permit MD-603A and Waiver wv-12930	Testing if required [F6]	Quarterly visible emissions observations [F8] Monitor the use of water and/or chemical dust suppressants [F10]	Record visible emissions observations [F14] Maintain records of water and/or chemical dust suppressant use [F15]	Report visible emissions observations semiannually [F18] Report excess emissions and permit deviations [F20]

Source ID#: MT-5, MT-7, RLO-4, TLO1-4

Source Description: Fugitive dust from Mountain Mover material transfer, C&D Reclaim material transfer, Baramix Rail Loadout, and enclosed truck loadouts

Pollutant	Emissions Limit / Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	10 percent opacity (except 7 percent for MT-7) [F3]	40 CFR 60 Subpart OOO WAQSR Ch 3 Sec 2 and Ch 6, Sec 2 Permit MD-603A	Testing if required [F6]	Quarterly visible emissions observations [F8]	Record visible emissions observations [F14]	Report visible emissions observations semiannually [F18] Report excess emissions and permit deviations [F20]
Particulate	WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & OOO					

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

Source ID#: TLO-5

Source Description: C&D Truck Loadout

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity [F3] Maximum of 15 trucks/525 tons C&D bentonite loaded per year [F3]	WAQSR Ch 3 Sec 2 and Ch 6, Sec 2 Waiver wv-12930	Testing if required [F6]	Monitor C&D Truck Loadout (TLO-5) operations [F10 and F12]	Maintain records of TLO-5 operations [F14 and F15]	Semiannual summary report [F18] Report excess emissions and permit deviations [F20]

Source ID#: HTRS

Source Description: Misc. Gas Fired Heaters

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity [F2]	WAQSR Ch 3, Sec 2	Testing if required [F6]	Verification of natural gas firing [F8]	Record any test results [F13]	Report type of fuel fired [F18] Report excess emissions and permit deviations [F20]
NO _x	0.20 lb/MMBtu [F4]	WAQSR Ch 3, Sec 3	Testing if required [F6]	None	Record any test results [F13]	Report any test results [F17] Report excess emissions and permit deviations [F20]

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

ABBREVIATIONS

ACFM	Actual cubic feet per minute
AFRC	Air-fuel ratio controls
AQD	Air Quality Division
BACT	Best available control technology (see Definitions)
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
CO	Carbon monoxide
CO ₂ e	Carbon dioxide equivalent
DEQ	Wyoming Department of Environmental Quality
EPA	United States Environmental Protection Agency (see Definitions)
ESP	Electrostatic Precipitator
g/hp-hr	Gram(s) per horsepower hour
gal	Gallon(s)
gr	Grain(s)
H ₂ S	Hydrogen sulfide
HAP(s)	Hazardous air pollutant(s)
hp	Horsepower
hr	Hour(s)
lb	Pound(s)
M	Thousand
MACT	Maximum available control technology (see Definitions)
mfr	Manufacturer
mg	Milligram(s)
MM	Million
MVACs	Motor vehicle air conditioners
NMHC(s)	Non-methane hydrocarbon(s)
NO _x	Oxides of nitrogen
NSCR	Non-selective catalytic reduction
O ₂	Oxygen
PM	Particulate matter
PM ₁₀	Particulate matter less than or equal to a nominal diameter of 10 micrometers
ppmv	Parts per million (by volume)
ppmw	Parts per million (by weight)
QIP	Quality Improvement Plan
RICE	Reciprocating internal combustion engine
SCF	Standard cubic foot (feet)
SCFD	Standard cubic foot (feet) per day
SCM	Standard cubic meter(s)
SIC	Standard Industrial Classification
SO ₂	Sulfur dioxide
SO _x	Oxides of sulfur
TBD	To be determined
TPD	Ton(s) per day (1 ton = 2000 pounds, unless otherwise specified)
TPH	Ton(s) per hour (1 ton = 2000 pounds, unless otherwise specified)
TPY	Tons per year (1 ton = 2000 pounds, unless otherwise specified)
U.S.C.	United States Code
µg	Microgram(s)
VOC(s)	Volatile organic compound(s)
W.S.	Wyoming Statute
WAQSR	Wyoming Air Quality Standards & Regulations (see Definitions)

DEFINITIONS

"Act" means the Clean Air Act, as amended, 42 U.S.C. 7401, *et seq.*

"Administrator" means Administrator of the Air Quality Division, Wyoming Department of Environmental Quality.

"Applicable requirement" means all of the following as they apply to emissions units at a source subject to Chapter 6, Section 3 of the WAQSR (including requirements with future effective compliance dates that have been promulgated or approved by the EPA or the State through rulemaking at the time of issuance of the operating permit):

- (a) Any standard or other requirement provided for in the Wyoming implementation plan approved or promulgated by EPA under title I of the Act that implements the relevant requirements of the Act, including any revisions to the plan promulgated in 40 CFR Part 52;
- (b) Any standards or requirements in the WAQSR which are not a part of the approved Wyoming implementation plan and are not federally enforceable;
- (c) Any term or condition of any preconstruction permits issued pursuant to regulations approved or promulgated through rulemaking under title I, including parts C or D of the Act and including Chapter 5, Section 2 and Chapter 6, Sections 2 and 4 of the WAQSR;
- (d) Any standard or other requirement promulgated under Section 111 of the Act, including Section 111(d) and Chapter 5, Section 2 of the WAQSR;
- (e) Any standard or other requirement under Section 112 of the Act, including any requirement concerning accident prevention under Section 112(r)(7) of the Act and including any regulations promulgated by EPA and the State pursuant to Section 112 of the Act;
- (f) Any standard or other requirement of the acid rain program under title IV of the Act or the regulations promulgated thereunder;
- (g) Any requirements established pursuant to Section 504(b) or Section 114(a)(3) of the Act concerning enhanced monitoring and compliance certifications;
- (h) Any standard or other requirement governing solid waste incineration, under Section 129 of the Act;
- (i) Any standard or other requirement for consumer and commercial products, under Section 183(e) of the Act (having to do with the release of volatile organic compounds under ozone control requirements);
- (j) Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under title VI of the Act, unless the EPA has determined that such requirements need not be contained in a title V permit;
- (k) Any national ambient air quality standard or increment or visibility requirement under part C of title I of the Act, but only as it would apply to temporary sources permitted pursuant to Section 504(e) of the Act; and
- (l) Any state ambient air quality standard or increment or visibility requirement of the WAQSR.
- (m) Nothing under paragraphs (A) through (L) above shall be construed as affecting the allowance program and Phase II compliance schedule under the acid rain provision of Title IV of the Act.

"BACT" or "Best available control technology" means an emission limitation (including a visible emission standard) based on the maximum degree of reduction of each pollutant subject to regulation under the WAQSR or regulation under the Federal Clean Air Act, which would be emitted from or which results for any proposed major emitting facility or major modification which the Administrator, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application or production processes and available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant. If the Administrator determines that technological or economic limitations on the application of measurement methodology to a particular class of sources would make the imposition of an emission standard infeasible, he may instead prescribe a design, equipment, work practice or operational standard or combination thereof to satisfy the requirement of Best Available Control Technology. Such standard shall, to the degree possible, set forth the emission reduction achievable by implementation of such design, equipment, work practice, or operation and shall provide for compliance by means which achieve equivalent results. Application of BACT shall not result in emissions in excess of those allowed under Chapter 5, Section 2 of the WAQSR and any other new source performance standard or national emission standards for hazardous air pollutants promulgated by EPA but not yet adopted by the state.

"Department" means the Wyoming Department of Environmental Quality or its Director.

"Director" means the Director of the Wyoming Department of Environmental Quality.

"Division" means the Air Quality Division of the Wyoming Department of Environmental Quality or its Administrator.

"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.

"EPA" means the Administrator of the U.S. Environmental Protection Agency or the Administrator's designee.

"Fuel-burning equipment" means any furnace, boiler apparatus, stack, or appurtenances thereto used in the process of burning fuel or other combustible material for the purpose of producing heat or power by indirect heat transfer.

"Fugitive emissions" means those emissions which could not reasonably pass through a stack chimney, vent, or other functionally equivalent opening.

"Insignificant activities" means those activities which are incidental to the facility's primary business activity and which result in emissions of less than one ton per year of a regulated pollutant not included in the Section 112 (b) list of hazardous air pollutants or emissions less than 1000 pounds per year of a pollutant regulated pursuant to listing under Section 112 (b) of the Act provided, however, such emission levels of hazardous air pollutants do not exceed exemptions based on insignificant emission levels established by EPA through rulemaking for modification under Section 112 (g) of the Act.

"MACT" or "Maximum achievable control technology" means the maximum degree of reduction in emissions that is deemed achievable for new sources in a category or subcategory that shall not be less stringent than the emission control that is achieved in practice by the best controlled similar source, as determined by the Administrator. Emission standards promulgated for existing sources in a category or subcategory may be less stringent than standards for new sources in the same category or subcategory but shall not be less stringent, and may be more stringent than:

- (a) the average emission limitation achieved by the best performing 12 percent of the existing sources (for which the Administrator has emission information), excluding those sources that have, within 18 months before the emission standard is proposed or within 30 months before such standard is promulgated, whichever is later, first achieved a level of emission rate or emission reduction which complies, or would comply if the source is not subject to such standard, with the lowest achievable emission rate applicable to the source category and prevailing at the time, in the category or subcategory for categories and subcategories with 30 or more sources, or
- (b) the average emission limitation achieved by the best performing five sources (for which the Administrator has or could reasonably obtain emissions information) in the category or subcategory for categories or subcategories with fewer than 30 sources.

"Modification" means any physical change in, or change in the method of operation of, an affected facility which increases the amount of any air pollutant (to which any state standards applies) emitted by such facility or which results in the emission of any such air pollutant not previously emitted.

"Permittee" means the person or entity to whom a Chapter 6, Section 3 permit is issued.

"Potential to emit" means the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in title IV of the Act or the regulations promulgated thereunder.

"Regulated air pollutant" means the following:

- (a) Nitrogen oxides (NO_x) or any volatile organic compound;
- (b) Any pollutant for which a national ambient air quality standard has been promulgated;

- (c) Any pollutant that is subject to any standard established in Chapter 5, Section 2 of the WAQSR or Section 111 of the Act;
- (d) Any Class I or II substance subject to a standard promulgated under or established by title VI of the Act; or
- (e) Any pollutant subject to a standard promulgated under Section 112 or other requirements established under Section 112 of the Act, including Sections 112(g), (j), and (r) of the Act, including the following:
 - (i) Any pollutant subject to requirements under Section 112(j) of the Act. If EPA fails to promulgate a standard by the date established pursuant to Section 112(e) of the Act, any pollutant for which a subject source would be major shall be considered to be regulated on the date 18 months after the applicable date established pursuant to Section 112(e) of the Act; and
 - (ii) Any pollutant for which the requirements of Section 112(g)(2) of the Act have been met, but only with respect to the individual source subject to Section 112(g)(2) requirement.
- (f) Pollutants regulated solely under Section 112(r) of the Act are to be regulated only with respect to the requirements of Section 112(r) for permits issued under this Chapter 6, Section 3 of the WAQSR.

"Renewal" means the process by which a permit is reissued at the end of its term.

"Responsible official" means one of the following:

- (a) For a corporation:
 - (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
 - (ii) A duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
 - (A) the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
 - (B) the delegation of authority to such representative is approved in advance by the Division;
- (b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- (c) For a municipality, State, Federal, or other public agency: Either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency; or
- (d) For affected sources:
 - (i) The designated representative or alternate designated representative in so far as actions, standards, requirements, or prohibitions under title IV of the Act or the regulations promulgated thereunder are concerned; and
 - (ii) The designated representative, alternate designated representative, or responsible official under Chapter 6, Section 3 (b)(xxvi) of the WAQSR for all other purposes under this section.

"WAQSR" means the Wyoming Air Quality Standards and Regulations promulgated under the Wyoming Environmental Quality Act, W.S. §35-11-101, *et seq.*

APPENDIX A
COAL CONSUMPTION PLAN

**BENTONITE PERFORMANCE MINERALS
PERIODIC MONITORING PLAN;
ESP NO_x Emissions**

BPM will utilize the following procedure to determine compliance with the annual NO_x limitation for the ESP at the Colony Plant:

- Determine a NO_x emission factor based on the annual NO_x test and the coal consumption measurements during the test. The coal consumption during the NO_x stack test shall be determined by measurement of the coal feed bins as described in the attached letter (included with previous Operating Permits). The coal measurements will also be reconciled with the daily coal delivery to the facility to determine the coal consumption during the testing period.
- Monitor coal consumption of the dryers and determine monthly consumption.
- The tons of coal used per month will be multiplied by the NO_x coal stack test factor to determine the monthly emission rate and summed to determine the annual emission rate.

Calculation performed as follows:

Monthly tons coal x NO_x emission factor = Monthly NO_x emission rate
Monthly rate will be summed to determine annual rate

06-24-2013 033096

June 24, 2004



Mr. Mike Stoll
Wyoming – DEQ, Air Quality Section
122 West 25th Street
Cheyenne, WY 82002

Colony, Wyoming Plant
HCR 69, Box 112
Belle Fourche, SD 57717

(307) 896-2696
FAX (307) 896-4588

Re: BPM Minerals, LLC
Crook County, Wyoming – Colony Plant
Operating Permit 30-096
MD-603A – NO_x Coal Monitoring Condition #10

Dear Mr. Stoll:

By this letter BPM Minerals, LLC (BPM) is submitting a proposal for the Colony Site ESP NO_x monitoring to determine monthly and annual compliance with construction Permit Modification MD603-A, Condition #10. This letter complies with the requirements set forth in the Department's June 17, 2004 letter requesting a proposal for NO_x monitoring at Colony Plant site.

The proposal to determine annual and monthly NO_x compliance will be based on the results of an annual stack test (Method 7e) and measured coal consumption immediately after the stack test. This will yield a number with the units: pounds of NO_x per weight (ton/or pounds) of coal. This number will be termed 'the NO_x-coal stack test factor.' Coal usage will be monitored monthly and yearly. The tons of coal used per month (year) will be multiplied by the NO_x-coal stack test factor to determine monthly and yearly compliance.

The coal consumption during the stack test will be measured as follows: The Colony plant has three separate furnace systems that consist of a coal day bin, a screw feeder, a coal mill furnace and dryer (see Figure 1 for a system cartoon). BPM plans to install a slide gate and chute on the coal mill auger feeder. This gate will enable BPM to measure the coal feed rate.

The procedure for measuring the coal tons/hour will be to open each of the three slide gate(s) immediately after the stack test and weigh the amount (pounds) of coal collected over a two-minute period. The coal feed (pounds/hour) for each of the three furnace systems (coal day bin, screw feeder, coal mill furnace dryer) will be determined by extrapolating the two-minute feed rate to pounds coal used/hour. This procedure will be repeated for each one hour stack test (twice more) for each furnace.

At the completion of the 3 –one hour stack test the following data will be have been collected:

06-24-2013 033096

NO_x - pounds/hour (3x - to co-inside with three one-hour tests)
Coal Feed/hour Furnace 1 (3x - to co-inside with three one-hour tests)
Coal feed/hour Furnace 2 (3x - to co-inside with three one-hour tests)
Coal feed/hour Furnace 3 (3x - to co-inside with three one-hour tests)

The coal feed on stack test run 1 for furnaces 1, 2 and 3 will be then averaged to produce a coal feed rate for run 1. Similarly the coal feed for run 2 and run 3 will be calculated. The coal feed rates should be very similar for all three runs as the furnaces typically operate at a set fire temperature. The three coal feed rates will be normalized to one hour (i.e. the pounds of coal used in two minutes will be multiplied by 30 to yield pounds of coal used in one hour) and correspond to the amount of NO_x used during each stack test.

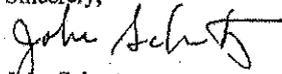
The NO_x-coal stack test factor will be calculated by averaging the pounds of NO_x produced/hour (as measured by each stack test) for all three stack tests. Similarly, the three coal consumption usage rates/hour will be averaged. The resulting two numbers will yield the NO_x-coal stack test factor or:

$$\frac{\text{pounds of NO}_x \text{ produced by the furnace per hour}}{\text{pounds of coal consumed (by the three furnaces) per hour}} = \text{NO}_x\text{-coal stack test factor}$$

BPM believes the method outlined above is the most practical and safe way to measure coal consumed per hour and links the NO_x produced per hour (as measured by the stack test) to coal consumed per hour.

Please do not hesitate to contact me @703-896-8514 if you have any questions or comments

Sincerely,



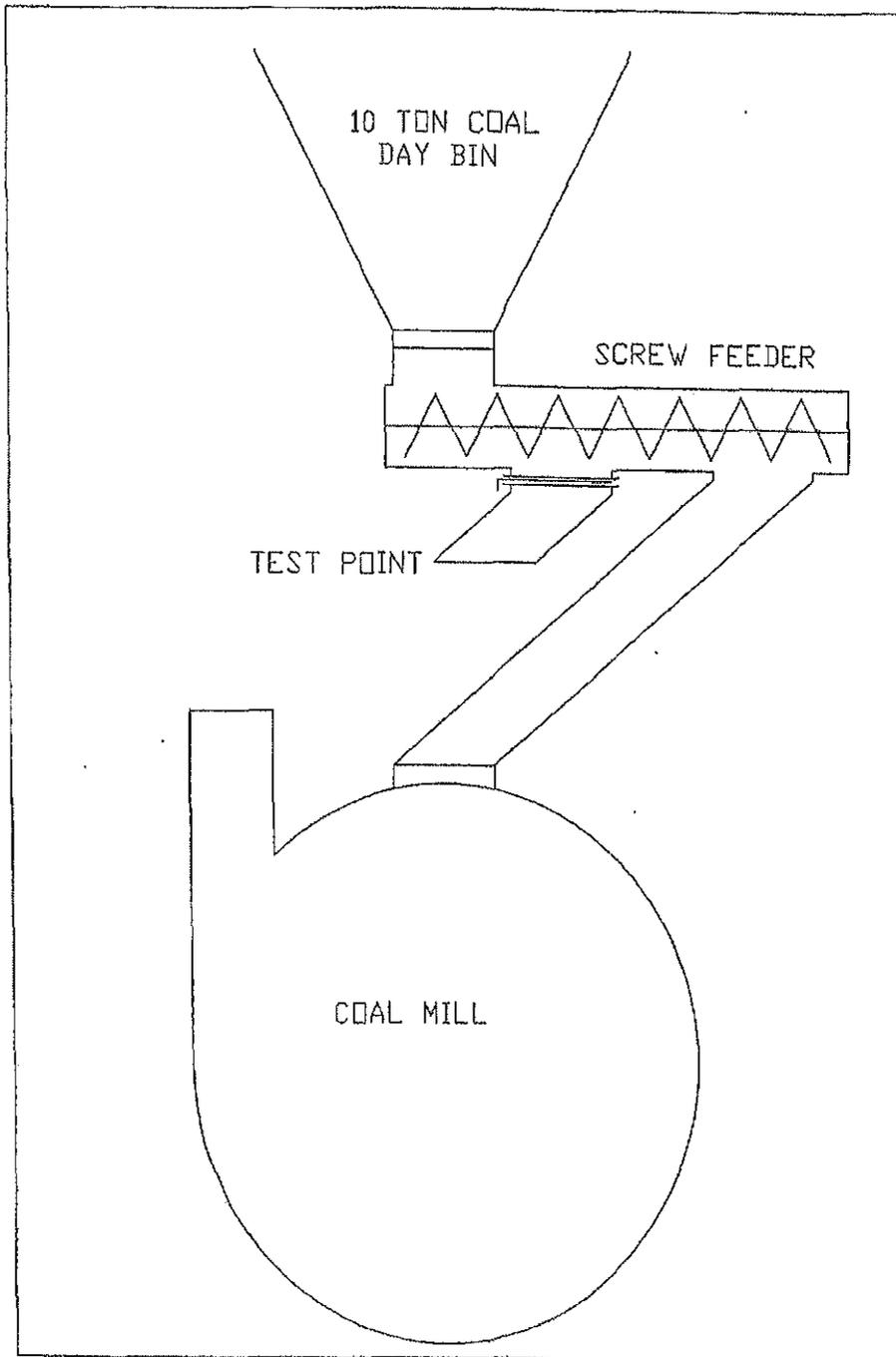
John Scheetz
Environmental Manager

Enclosure:

Figure 1: Coal System Diagram with Proposed Slide Gate

06-24-2013 033096

Figure 1



Cartoon of Proposed Modification
to Coal Mill Feed to Measure
Furnace Coal Consumption

BPM Minerals LLC - Colony Plant (Permit 30-096)

06-24-2013 033096

**BENTONITE PERFORMANCE MINERALS
PERIODIC MONITORING PLAN:
ESP SO₂ Emissions**

- Monitor coal sulfur content from each coal shipment.
- Monitor coal consumption of the dryers and determine monthly consumption.
- Monitor operation hours for the dryers and determine monthly operation.
- From monthly coal consumption, average sulfur content, operating hours and measured sulfur retention from last stack test, determine the monthly average SO₂ emission rate in lb/hr and total emissions per month.
- Sum monthly SO₂ emission rates to determine annual emission rate.
- Perform testing for SO₂ from the ESP stack on a five year interval to determine compliance with hourly emission rate and verify the sulfur retention factor.

Calculation performed as follows:

Monthly tons coal x 2000 lb/ton x (%sulfur / 100) x (1- Bentonite Retention Factor)
x 2 (molecular wt. adjustment) / monthly operating hours = Ave. Monthly SO₂
emission rate (lb/hr)

06-24-2013 033096

APPENDIX B
COMPLIANCE ASSURANCE MONITORING PLAN

**BENTONITE PERFORMANCE MINERALS
COMPLIANCE ASSURANCE MONITORING PLAN:
ESP AND FABRIC FILTER FOR PM CONTROL**

I. Background

A. Emissions Units:

- Facility: Bentonite Performance Minerals, Colony Plant
- Description: Entire Facility-Bentonite Processing Plant
- Unit Identification:
 - BVI Fuel Coal Silo
 - ESP Electrostatic Precipitator
 - DDBH C&D Storage Bunker
 - DDBH-2 C&D Storage Bunker
 - CDRLB C&D Rail Loadout
 - CDRBH C&D Reclaim Hopper
 - BV2 Bulk Silo #1
 - BV3 Bulk Silo #2
 - BV4 Bulk Silo #3
 - BV13 200 Mesh Surge Bin
 - BV14 200 Mesh Silo
 - DPJ 200 Mesh Loadout
 - PPPSP Powder Packer Palletizer
 - BRLSP Bulk Loadout
 - GBH1 Granular Silo #1
 - GBH2 Granular Silo #2
 - GBH3 Granular Silo #3
 - BV6 Granular Receiving Bins
 - MEGBH Megatex System Baghouse
 - DBBH Dry Bin Dust Collector
 - MK1 Bore-Gel Baghouse
 - BV15 Bore-Gel Silo 5
 - BV7 Crude Coal Silo (#1)
 - BV8 Coal Mill/Silo
 - BV5 Baramix Silo (#2)
 - BV9 Baramix Silo (#3)
 - DC3 Baramix Silo (#5)
 - DC4 Baramix Silo (#6)
 - BV12 Baramix Blender/Additives
 - DC5 Baramix Packer Bin
 - BV11 Baramix Finished Silo (#7)
 - BV10 Baramix Truck LO
 - Sly4 Baramix Sly Baghouse
 - GSBH Grout System Baghouse

- B. Applicable Regulation, Emission Limit and Monitoring Requirements:
 - Applicable Regulation: WAQSR Chapter 7, Section 3, Operating Permit
 - Emissions Limits: See Operating Permit
 - Monitoring Requirements: Dust Observations
- C. Control Technology:
 - Fabric/Cartridge Filters, Bin Vent Filters and ESP

II. Monitoring Approach

- A. Indicator
 - Visible dust from discharge of device
- B. Measurement Approach
 - The device will be observed visually for at least one-minute on a daily basis to determine the presence of visible emissions. If visible emissions are observed, the emission control device will be immediately repaired, or the operating device will be shut down as soon as possible, depending on the cause of the dust.
 - The device will be observed for one minute during normal operations (if the unit is operating; if not, it will be so noted). The devices, if maintained properly, have been proven to and will control particulate emissions and opacity within permit limits. The facilities operate on a continual basis and a one-minute visual observation is sufficient time for indication of malfunction of the fabric filter or ESP. Additionally, the facilities are manned continuously while operating and individuals are aware of "dusting" so that the filters are essentially observed on a continual basis.
 - Finally, the devices will be operated in accordance with manufacturer's specifications and recommendations, along with a preventative maintenance plan outlined in the operating permit.
- C. Indicator Range:
 - The indicator for action is no visible dust emissions, i.e. observation of any dust requires action as outlined above.
- D. Quality Improvement Threshold (QIP):
 - The QIP threshold is five visible sightings from a single unit within a six month reporting period.
- E. Performance Criteria:
 - Data Representation: Measurements at the emissions point

- Verification of Operational Status: Observations will occur during normal operations of the emissions unit.
- QA/QC Practices and Criteria:
 - i. The observer will be familiar with the principals of EPA Method 22.
- Monitoring Frequency and Data Collection Procedure:
 - i. A one-minute dust observation will be performed on a daily basis.

III. Justification

- A. Background:
 - This facility dries, packages and ships bentonite. The emissions are controlled from the individual processes with various fabric/cartridge filters, bin vent filters and electrostatic precipitator.
- B. Rationale for Selection of Performance Indicator:
 - Dust emissions were selected as the performance indicator because they are indicative of operation of the device in a manner necessary to comply with the particulate emissions and opacity standards. When a device is operated and maintained as per the manufacturer's specifications, there will be very little or no emissions from the exhaust. Therefore, visible dust emissions indicate some type of failure of equipment and can be utilized as a performance indicator.
- C. Rationale for Selection of Indicator Level:
 - The selected indicator range is no dust emissions. When an excursion occurs, the equipment will be inspected and repaired as necessary at the earliest possible date. If the opacity is within the applicable opacity standard, maintenance will be scheduled as soon as practical. If the opacity is greater than the applicable standard, the equipment will be immediately shut down and repaired as necessary. All repairs and preventative maintenance will be documented in a preventative maintenance plan.
 - Dust observations were selected because the observer need not be certified in EPA Method 9, and the indicator of either dust emissions or no dust emissions can be easily detected.
 - The frequency of daily observations was selected because a control device operated and maintained per the manufacturer's specifications and recommendations will operate efficiently for extended periods of time. The need for more frequent or longer observations is not apparent.



BENTONITE

Performance Minerals LLC

Colony Plant

Quarterly Preventative Maintenance
& Inspection Log
For
Air Quality Emission Control Devices
Version 9.0

Report Date for Quarter _____ Year _____

06-24-2013 033096

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Fuel Coal Silo Baghouse (BV1) Checklist:

Check socks _____

Handshake bags _____

Make sure fan is running _____

Remove mud build-up as necessary _____

Check the condition of the fans _____

Date of inspection inside baghouse: _____ Time: _____

Name: _____

SFP - 9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Electrostatic Precipitator (ESP) Checklist:

Top of ESP check for leakage around the hatches _____

Check the panels for spacing and condition of the electrical connections _____

Check the overall condition of the equipment _____

Condition of the transformers _____

Timing of each rapper and vibrator _____

Condition of the hopper, take out screw, motor, and drive _____

Check the ductwork and neck for dust build-up _____

Condition of the fan, motor, and drive _____

Annual thermography of the ESP _____

Any maintenance completed on the ESP _____

Any additional maintenance required on the ESP _____

Date of Inspection inside baghouse: _____ Time: _____

SEP 19 2014

Name: _____

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Dry Bin Baghouse (DBBH) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Check condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse:: _____ Time: _____

Name: _____

SEP -9 2024

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

C&D Bunker Baghouse (DDBH) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Check condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse:: _____ Time: _____

Name: _____

3/9/2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

C&D Bunker Baghouse (DDBH-2) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Check condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of inspection inside baghouse:: _____ Time: _____

Name: _____

SFP - 9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

C&D Rail Loadout Baghouse (CDRLO) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board and solenoids for proper firing sequence and cleaning of bags _____

Check rotating arm and cleaning fan _____

Check the ductwork for dust build-up _____

Check condition of fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of inspection inside baghouse:: _____ Time: _____

Name: _____

SEP -9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

C&D Reclaim Hopper Baghouse (CDRBH) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board and solenoids for proper firing sequence and cleaning of bags: _____

Check rotating arm and cleaning fan _____

Check the ductwork for dust build-up _____

Check condition of fan, motor, and drive _____

Any maintenance completed on the baghouse: _____

Any additional maintenance required on the baghouse _____

Date of inspection inside baghouse: _____ Time: _____

Name: _____

SEP - 9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Bulk Bentonite Silo #1 (BV2) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board, solenoids and pneumatic cleaning _____

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Any maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

SEP 9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Bulk Bentonite Silo #2 (BV3) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board, solenoids and pneumatic cleaning _____

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Any maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

SEP -9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Bulk Bentonite Silo #3 (BV4) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board, solenoids and pneumatic cleaning _____

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Any maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse:: _____ Time: _____

Name: _____

SEP 19 2011

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

200-Mesh Cartridge Filter (BV13) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board, solenoids and pneumatic cleaning _____

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Any maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse:: _____ Time: _____

Name: _____

SEP 10 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

200-Mesh Silo Binvents (BV14) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board, solenoids and pneumatic cleaning _____

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Any maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

3/19/2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

New Truck Loadout Baghouse (DPJ) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the cleaning sequence and timer _____

Check the ductwork and hopper for dust build-up _____

Check condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse:: _____ Time: _____

Name: _____

SEP 9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Powder Packer and Palletizer Baghouse (PPPSP) Checklist:

Record the pressure reading (weekly) : 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

01/19/2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Powder Rail Loadout Baghouse (BRSLP) Checklist:

Check the pressure reading weekly : 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the cleaning sequence and timer _____

Check the ductwork and hopper for dust build-up _____

Check condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

06/09/2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Granular Silo #1 Baghouse (GBH1) Checklist:

Record the pressure reading weekly: 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing sequence of pneumatic cleaning of socks _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the condition of the fans _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

017 19 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Granular Silo #2 Baghouse (GBH2) Checklist:

Record the pressure reading weekly: 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing sequence of pneumatic cleaning of socks _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the condition of the fans _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of inspection inside baghouse: _____ Time: _____

Name: _____

SEP 19 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Granular Silo #3 Baghouse (GBH3) Checklist:

Record the pressure reading weekly: 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing sequence of pneumatic cleaning of socks _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the condition of the fans _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse:: _____ Time: _____

Name: _____

3/19/14

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Granular/Powder Receiving Bin vents (BV6) Checklist:

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Check timing board and selenoids _____

Any maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

8/19/2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Megatex Baghouse (Minerals Machine) (MEGBH) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse:: _____ Time: _____

Name: _____

SEP -9 2011

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Bore-Gel Baghouse (MK1) Checklist:

Enter the pressure reading (weekly) : 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Condition of the fan, motor, and drive _____

Check the rotary valve _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of inspection inside baghouse:: _____ Time: _____

Name: _____

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Bore-Gel Silo Baghouse (BV15) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse:: _____ Time: _____

Name: _____

SEP 19 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Crude Coal Silo Baghouse (BV7) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of inspection inside baghouse: _____ Time: _____

Name: _____

5/19/04

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Silo Baghouse (BV8) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Condition of the fan, motor, and drive _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of inspection inside baghouse: _____ Time: _____

Name: _____

5/11/11

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Baramix Silo #2 Binvent (BV5) Checklist:

Check timing sequence of pneumatic cleaning of socks _____

Check the solenoids and timing board to ensure pulse cleaning of the bags _____

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Any maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

011 5 10

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Baramix Silo 3 Baghouse (BV9) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Check timing board and selenoids _____

Any other maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

SFP - 9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

DC-3 (Baramix Silo #5 Dixie Cup), DC-4 (Baramix Silo Dixie Cup) and DC-5 (Baramix Packer Bin Vent Bag filter) Checklist:

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Check and clean cartridges and socks _____

Date of Inspection of Dixie cup _____ Time: _____

Name: _____

03/27/2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Baramix Blender/Additives Baghouse (BV12) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board, solenoids and pneumatic cleaning of socks _____

Check the condition of the fan _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

SEP -y 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Baramix Finished Silo (BV11) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board, solenoids and pneumatic cleaning _____

Check for moisture by opening enclosures _____

Remove mud build-up as necessary _____

Any maintenance completed on the binvents _____

Any additional maintenance required on the binvents _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

SEP - 9 '07

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Baramix Truck Loadout Baghouse (BV10) Checklist:

Record the pressure reading (weekly): 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check timing board, solenoids and pneumatic cleaning of socks _____

Check the condition of the fan _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

SEP 09 2009

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Baramix Packer-Rail Loadout Baghouse (Sly4) Checklist:

Check the pressure reading weekly ; 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the pressure drop _____

Check the ductwork and hopper for dust build-up _____

Condition of the fan, motor, and drive _____

Check rotating arm and cleaning fan _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

SEP 9 2014

Quarterly Preventative Maintenance & Inspection Log for Emission Control Devices

Air Quality Permit #3-2-096-1

Grout System Baghouse (GSBH) Checklist:

Enter the pressure reading (weekly) : 1st week _____ 2nd week _____ 3rd week _____
4th week _____ 5th week _____ 6th week _____ 7th week _____ 8th week _____
9th week _____ 10th week _____ 11th week _____ 12th week _____ 13th week _____

Check the timer board for proper firing sequence _____

Check the solenoids to ensure pulse cleaning of the bags _____

Check the ductwork for dust build-up _____

Condition of the fan, motor, and drive _____

Check the rotary valve _____

Any maintenance completed on the baghouse _____

Any additional maintenance required on the baghouse _____

Date of Inspection inside baghouse: _____ Time: _____

Name: _____

011 15 200

