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. 3-2-090

Issue Date: **September 12, 2012**
Expiration Date: **September 12, 2017**
Effective Date: **September 12, 2012**
Replaces Permit Nos.: **3-1-090-1 & 31-137-1**

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,

American Colloid Company
Colony East & West Plants
Sections 3, 10 and 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 — 9-12-12

Steven A. Dietrich, Administrator
Air Quality Division

Date

John V. Corra — 9/18/12

John V. Corra, Director
Department of Environmental Quality

Date

WAQSR CHAPTER 6, SECTION 3 OPERATING PERMIT

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

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GENERAL INFORMATION

Company Name: **American Colloid Company**

Mailing Address: **692 US Highway 212**

City: **Belle Fourche** State: **South Dakota** Zip: **57717**

Plant Name: **Colony East & West Plants**

Plant Location: **Sections 3, 10 and 11, Township 56 North, Range 61 West (on highway 212 in Colony, WY)**

Plant Mailing Address: **692 US Highway 212**

City: **Belle Fourche** State: **South Dakota** Zip: **57717**

Name of Owner: **AMCOL International, Inc.** Phone: **(847) 851-1700**

Responsible Official: ***Kevin Mudge*** Phone: ***(605) 892-7081***
(Amended February 8, 2013)
Alternate Responsible Official: William (Bill) Rhoads ***Phone: (605) 892-7644***
(Amended March 12, 2013)

Plant Manager/Contact: ***Kevin Mudge*** Phone: ***(605) 892-7081***
(Amended February 8, 2013)

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

SIC Code: **1459-02**

Description of Process: **Locally mined bentonite is delivered for processing at the facility. The raw bentonite is screened, sized, milled and dried prior to further processing and packaging or stockpiled for later use.**

SOURCE EMISSION POINTS

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

SOURCE ID#	SOURCE DESCRIPTION	SIZE	CH. 6, SEC. 2 PERMITS
Colony East Sources			
BH-08	Fluid Bed Dryer [a, c]	50 MMBtu/hr	MD-342, MD-1590A, AP-7881
RD-1	Rotary Dryer [a, c]	40 MMBtu/hr	MD-342, MD-1590A, AP-7881
RD-2	RD Nuisance [a]	40 TPH	MD-1590A
PS-1	Old Granular Screen 1 [a]	100 TPH	MD-1590A, AP-7881
PD-1	Pre-Dried Clay System [a]	100 TPH	MD-1590A, AP-7881
17A	Granular System [a]	25 TPH	MD-1590A, AP-7881
17B	Raymond Mill 1 [a]	20 TPH	MD-1590A, AP-7881
17C	Raymond Mill 2 [a]	20 TPH	MD-1590A, AP-7881
17D	Nuisance Dust [a]	25 TPH	MD-1590A, AP-7881
18	Storage Silos [a]	40 TPH	MD-1590A, AP-7881
19	Draco Air Slides [a]	40 TPH	MD-1590A
26	#47 Regis Packer [a]	50 TPH	MD-1590A, AP-7881
27	#22 Air Conveying System [a]	150 TPH	MD-1590A, AP-7881
BV-01	Coal Silo [a]	5 TPH	MD-342, AP-7881
BV-02	C&D Outfeed Baghouse	60 TPH	MD-1590A
3SB	P&D Bunker [a] (BV-02 is the baghouse for 3SB)	N/A	MD-1590A
SP-1E	Storage Piles	N/A	None
MT-1E	Material Transfers	N/A	None
MT-2E	Material Transfers, Second Crusher	N/A	AP-7881
BRL	Rail Loadouts	80 TPH	None
CB-1	Coal Bunker	40 TPH	None
FD-1E	Roads	N/A	MD-1590A
UHTRE 1-5	Unit Heaters [c]	0.25 MMBtu/hr each	None
BHTRE 1-5	Belt/Slide Heaters [c]	0.25 MMBtu/hr each	None
None	Diesel Tank	110 gallons	None
None	Gasoline Tank	120 gallons	None
None	On Road Diesel Tank (for east and west plants)	650 gallons	None

SOURCE ID#	SOURCE DESCRIPTION	SIZE	CH. 6, SEC. 2 PERMITS
Colony West Sources			
DC-01	Rotary Dryer 1 [a, c]	37.7 MMBtu/hr	MD-266, MD-1591A2
DC-02	Rotary Dryer 2 [a, c]	37.7 MMBtu/hr	MD-266, MD-1591A2
DC-03	Mills 1 and 2 [a]	23 TPH each	MD-1591A2
DC-04	Granular Screens [a]	32 TPH	MD-1591A2
DC-05	Screening Area [a]	32 TPH	MD-1591A2
DC-06	Packer System [a]	25 TPH	MD-1591A2
DC-07	Bulk Loadout [a]	80 TPH	MD-1591A2
BS-08	Belt Scale [a]	90 TPH	MD-1591A2
BS-09	Belt Scale Hopper	90 TPH	MD-1591A2
DC-10	Transfer System [b]	N/A	AP-XN2
DC-11	Packaging System [b]	N/A	AP-XN2
DC-12	Granular Loadout [a]	90 TPH	MD-1591A2
DC-13	Triangular Packer [a]	50 TPH	MD-1591A2
DC-14	Fines Tanks [a]	32 TPH	MD-1591A2
DC-15	Granular Nuisance Sources [a]	32 TPH	MD-1591A2
DC-16	Orema/Nuisance Sources	32 TPH	MD-1591A2
GEN1	Emergency Generator Engine	144 hp	None
GEN2	Emergency Generator Engine	144 hp	None
CH-12	Coal Handling	30,000 TPY	None
BL-13	Truck Bulk Loading	90 TPH	None
BL-15	Dried and Crushed Loadout	90 TPH	None
SP-1W	Crude Clay Storage Piles	730,000 TPY	None
MT-1W	Material transfers	730,000 TPY	None
FD-1W	Roads	N/A	MD-1591A
UHTRW 1-6	Unit Heaters [c]	0.25 MMBtu/hr each	None
BHTRW 1-8	Belt/Slide Heaters [c]	0.25 MMBtu/hr each	None
None	Diesel Tank	10,000 gallons	None
None	Gasoline Tank	6,000 gallons	None

[a] Particulate emissions controlled by baghouse
[b] Vents inside of building
[c] Propane may be used during periods of natural gas curtailment

TOTAL FACILITY ESTIMATED EMISSIONS

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

POLLUTANT	EMISSIONS (TPY)
CRITERIA POLLUTANT EMISSIONS	
Particulate Matter	226
PM_{10} Particulate Matter	226
Sulfur Dioxide (SO_2)	372
Nitrogen Oxides (NO_X)	415
Carbon Monoxide (CO)	22
Volatile Organic Compounds (VOCs)	3
HAZARDOUS AIR POLLUTANT (HAP) EMISSIONS	2.2

Emissions estimates for particulate, SO_2, NO_X, CO and VOCs are from permits MD-1590A and MD-1591A2. Emissions estimates for HAPs are from waivers AP-BM1 and AP-2074.

FACILITY-SPECIFIC PERMIT CONDITIONS

Facility-Wide Permit Conditions

(F1) SULFUR DIOXIDE EMISSIONS INVENTORY [WAQSR Ch 14, Sec 3]
The permittee shall comply with the requirements of WAQSR Ch 14, Sec 3, including estimating SO_2 emissions in accordance with Ch 14, Sec 3(b), and adjusting estimates in accordance with Ch 14, Sec 3(c), if necessary.

Source-Specific Permit Conditions

(F2) BENTONITE PRODUCTION LIMITS, COAL USAGE AND COAL SULFUR CONTENT [WAQSR Ch 6, Sec 2 Permits MD-266 and MD-342]

(a) The bentonite production for the Colony West Plant shall not exceed 600,000 tons per calendar year.

(b) The coal usage for the rotary dryers (DC-1 and DC-02) at the Colony West Plant shall not exceed 30,000 tons per calendar year.

(c) The coal usage at the Colony East Plant shall not exceed 35,600 tons per calendar year, and the sulfur content of the coal fired in the dryers (BH-8 and RD-1) shall not exceed 0.85 percent.

(F3) EMISSION LIMITATIONS AND CONTROLS [WAQSR Ch 3, Sec 2; Ch 3, Sec 3; Ch 6, Sec 2 Permits/Waivers MD-342, AP-XN2, AP-6383, MD-1590A, MD-1591A2, AP-7881, AP-8575]

(a) Visible emissions from the building enclosing the cat litter packaging line (DC-10 and DC-11) shall be limited to no visible emissions as determined by 40 CFR Part 60, Appendix A, Method 22

(b) Visible emissions from the RD nuisance, Draco air slides, C&D outfeed bin vent, granular system, triangle packer, fines tank/nuisance, granular nuisance sources, and Orema/nuisance sources (RD-2, 19, BV-02, DC-04, DC-13, DC-14, DC-15, and DC-16) shall not exceed 7% opacity.

(c) Visible emissions from the 40 MMBtu rotary dryer (unit RD-1), fugitive emissions from the conveyor and storage bunker unit 3SB, fugitive emissions associated with the new elevator for tanks 4, 5 and 6, and all conveyor transfer points and loading operations, shall not exceed 10% opacity.

(d) Fugitive emissions from the second crusher (MT-2E) associated with the rotary dryer shall not exceed 15% opacity.

(e) Visible emissions from the following shall not exceed 20% opacity as determined by Method 9 of 40 CFR Part 60, Appendix A: the fluid bed dryer, old granular screen 1, pre-dried clay system, granular system, Raymond mill #1, Raymond mill #2, nuisance dust, storage silos, #47 Regis packer, #22 air conveying system, coal silo, dryer #1, dryer #2, mill #1 & #2, screening area, packer system, bulk loadout, belt scale #1, belt scale #1 hopper, granular loadout, and heaters (BH-08, PS-1, PD-1, 17A, 17B, 17C, 17D, 18, 26, 27, BV-01, DC-01, DC-02, DC-03, DC-05, DC-06, DC-07, BS-08, BS-09, DC-12, BHTRS and UHTRS).

(f) Visible emissions of any contaminant discharged into the atmosphere from any other emission source shall not exhibit greater than 20% opacity except for one period or periods aggregating not more than six minutes in any one hour of not more than 40% opacity, including generators GEN 1 and GEN2.

(g) All unpaved portions of haul roads, access roads and work areas shall be treated with water and/or chemical suppressants on a schedule sufficient to control fugitivedust from vehicular traffic and wind erosion.

(h) The coal storage silo (BV-01) shall be equipped with a bin vent fabric filter.

(i) Particulate matter emissions from the units listed in Table 1 shall not exceed the specified limits.

(j) The particulate emission and opacity limits for the units listed in Table I for the Colony East and West Plants shall apply at all times including startup and shutdown.

(k) NO_X emissions from each unit heater (UHTR 1-11) shall not exceed 0.20 lb/MMBtu of heat input, and NO_X emissions from each belt/slide heater (BHTR1-13) shall not exceed 0.23 lb/MMBtu of heat input.

Table 1: Particulate Matter Emission Limits

Source ID #	Source Description	Emission Limits	
		gr/dscf	lb/hr
BH-08	Fluid Bed Dryer	0.01	3.0
RD-1	Rotary Dryer	0.01	3.0

Table 1: Particulate Matter Emission Limits			
Source ID #	Source Description	Emission Limits	
		gr/dscf	lb/hr
RD-2	RD Nuisance	0.01	0.5
PS-1	Old Granular Screen 1	0.01	0.7
PD-1	Pre-Dried Clay System	0.01	1.0
17A	Granular System	0.01	0.4
17B	Raymond Mill 1	0.01	0.2
17C	Raymond Mill 2	0.01	0.3
17D	Nuisance Dust	0.01	0.8
18	Storage Silos	0.01	0.4
19	Draco Air Slides	0.01	0.1
26	#47 Regis Packer	0.01	0.5
27	#22 Air Conveying System	0.01	1.5
BV-02	C&D Outfeed	0.01	0.3
DC-01	Rotary Dryer 1	0.01	3.4
DC-02	Rotary Dryer 2	0.01	3.4
DC-03	Mills 1 and 2	0.01	0.6
DC-04	Granular Screens	0.01	0.9
DC-05	Screening Area	0.01	0.5
DC-06	Packer System	0.01	0.9
DC-07	Bulk Loadout	0.01	1.0
BS-08	Belt Scale	0.01	0.2
BS-09	Belt Scale Hopper	0.01	0.1
DC-12	Granular Loadout	0.01	0.4
DC-13	Triangular Packer	0.01	0.2
DC-14	Fines Tanks	0.01	0.7
DC-15	Granular Nuisance Sources	0.01	0.9
DC-16	Orema/Nuisance Sources	0.01	1.6

(F4) TEMPORARY ENGINE REPLACEMENT [WAQSR Ch 6, Sec 3(h)(i)(I)]

(a) 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. Permanent replacement of an engine **must** be evaluated by the Division under Ch 6, Sec 2 of WAQSR to determine appropriate permitting action and evaluate the need for additional requirements resulting from the permanent replacement.

(b) The temporary replacement unit shall be identical or similar to the unit replaced with emission levels at or below those of the unit replaced.

(c) The permittee shall notify the Division in writing of such replacement within five working days, provide the date of startup of the replacement, and provide a statement regarding the applicability of any New Source Performance Standards (NSPS) in 40 CFR Part 60; any National Emission Standards for Hazardous Air Pollutants (NESHAPs) in 40 CFR Part 63; and Compliance Assurance Monitoring (CAM) in WAQSR Ch 7, Sec 3.

Testing Requirements

(F5) EMISSIONS TESTING [W.S. 35-11-110 and 40 CFR Part 60 Subparts OOO & UUU]

(a) The Division reserves the right to require additional testing as provided under condition G1 of this permit. Should testing be required, test methods found at 40 CFR Part 60, Appendix A, shall be used as follows:

(i) For visible emissions from the buildings enclosing the cat litter packaging line (DC-10 & DC-11), Method 22 shall be used.

(ii) For visible and particulate emissions from the Colony East rotary dryer (RD-1), emissions shall be measured as specified in 40 CFR Part 60, Subpart UUU §60.736.

(iii) For visible and particulate emissions from units subject to the requirements of 40 CFR Part60, Subpart OOO, emissions shall be measured as specified in Subpart OOO §60.675.
(iv) For visible emissions from other sources, Method 9 shall be used.
(v) For particulate emissions from other sources, Methods 1-4 and 5 shall be used.
(vi) For NO_X emission sources Methods 1-4 and 7E shall be used.
(vii) 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).

Monitoring Requirements

(F6) BENTONITE PRODUCTION, COAL USAGE AND COAL SULFUR CONTENT MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I); Ch 6, Sec 2 Permit MD-266]

(a) The permittee shall monitor the bentonite production each month from the Colony West Plant. Compliance with the limit in condition F2(a) shall be determined by totaling monthly bentonite production from the first of each calendar year.

(b) The permittee shall monitor the coal usage each month for the dryers (DC-01 and DC-02) at the Colony West Plant. Compliance with the limit in condition F2(b) shall be determined by totaling monthly coal usage from the first of each calendar year.

(c) The permittee shall monitor the coal usage each month for the dryers (BH-08 and RD-1) at the Colony East Plant. Compliance with the coal usage limit in condition F2(c) shall be determined by totaling monthly coal usage from the first of each calendar year.

(d) The permitted shall determine the sulfur content of each shipment of coal used in the dryers (BH-08 and RD-1) at the Colony East Plant to determine compliance with the sulfur limit in condition F2(c).

(F7) VISIBLE, PARTICULATE AND FUGITIVE EMISSIONS MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I); Ch 6, Sec 2 Permits MD-1590A and MD-1591A2; and 40 CFR Part 60 Subparts OOO and UUU]

(a) The permittee shall monitor for visible emissions from the cat litter packaging line (DC-10 and DC-11) by conducting weekly Method 22 observations lasting at least 1-minute of each side and the top of the building enclosing the packaging line.

(b) Additional monitoring for emissions from the units subject to 40 CFR Part 60, Subpart OOO, including units RD-2, 19, BV-02, DC-04, DC-13, DC-14, DC-15, DC-16, and all conveyor transfer points and loading operations including unit 3SB, is specified in §§60.674 and 60.675 of Subpart OOO.

(c) Reserved.

(d) Periodic monitoring for visible emissions from the other baghouse-controlled units shall consist of the monitoring required for particulate emissions described in paragraph (f) of this condition.

(e) Periodic monitoring for visible emissions from the heaters and generators (BHTRS, UHTRS, GEN1 and GEN2) shall consist of monitoring the type of fuel used to ensure natural gas or propane is the sole fuel source for these units.

(f) The permittee shall adhere to the Compliance Assurance Monitoring (CAM) plans, attached as Appendix A of this permit, for particulate emissions from the units subject to CAM (BH-08, RD-1, RD-2, BV-01, PS-1, PD-1, 17A, 17B, 17C, 17D, 18, 19, 26, 27, DC-01, DC-02, DC-03, DC-04, DC-05, DC-06, DC-07, BS-08, BS-09, DC-12, DC-13, DC-14, DC-15, DC-16), and for the C&D outfeed (BV-02) which is not subject to CAM, and shall conduct monitoring as follows during active operation of each source:

(i) The permittee shall conduct, at minimum, once daily visual observations of each unit listed above, in accordance with the CAM plans, to determine the presence of visible emissions.

(ii) For the rotary dryer (RD-1), three 6-minute visual observations shall be performed in accordance with §60.734 of 40 CFR 63 Subpart UUU. For the other units, 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, which is considered observation of any visible emissions from any of these units, shall prompt immediate inspection and, if necessary, corrective actions as described in the approved CAM plans.

(iv) The permittee shall follow all other applicable requirements under conditions CAM-1 through CAM-4 of this permit.

(g) For fugitive emissions from the second crusher (MT-2E) associated with the rotary dryer, the permittee shall perform semi-annual Method 9 observations while the crusher is operating.

(h) For the requirement in condition F3(g) to control fugitive dust from haul roads, access roads, and work areas, the permittee shall monitor the date, type of treatment (water/chemical suppressant), and amount of treatment used.

(F8) Reserved.

Recordkeeping Requirements

(F9) SULFUR DIOXIDE EMISSIONS INVENTORY RECORDS [WAQSR Ch 14, Sec 3(b)]

(a) The permittee shall maintain all records used in the calculation of SO_2 emissions for the inventory required by condition F1, including but not limited to the following:

(i) Amount of fuel consumed;

(ii) Percent sulfur content of fuel and how the content was determined;

(iii) Quantity of product produced;

(iv) Emissions monitoring data;

(v) Operating data; and

(vi) How the emissions are calculated, including monitoring/estimation methodology with a demonstration that the selected methodology is acceptable under Ch 14, Sec 3.

(b) The permittee shall maintain records of any physical changes to facility operations or equipment, or any other changes (e.g. raw material or feed) that may affect emissions projections of SO_2.

(c) The permittee shall retain all records and support information for compliance with this condition and with the reporting requirements of condition F13 at the facility, for a period of **at least ten (10) years** from the date of establishment, or if the record was the basis for an adjustment to the milestone, five years after the date of an implementation plan revision, whichever is longer.

(F10) BENTONITE PRODUCTION, COAL USAGE AND COAL SULFUR CONTENT RECORDS [WAQSR Ch 6, Sec 3(h)(i)(C)(II); Ch 6, Sec 2 Permit MD-266]

(a) The permittee shall record the monthly bentonite production of the Colony West Plant.

(b) The permittee shall record the amount of coal used on a monthly basis at each plant for comparison with the coal usage limits in condition F2(b) and F2(c).

(c) The permittee shall record the sulfur content of each shipment of coal fired in the Colony East Plant.

(d) The permittee shall retain on-site at the facility the records and support information for a period of at least five years from the date of the record.

(F11) TESTING AND MONITORING RECORDS [WAQSR Ch 6, Sec 3(h)(i)(C)(II)]

(a) For any testing or monitoring, including CAM, required under conditions F5 and F7, other than Method 9 or Method 22 observations, the permittee shall record, as applicable, the following:

(i) The date, place, and time of sampling or measurements;

(ii) The date(s) the observations or analyses were performed;

(iii) The company or entity that performed the observations or analyses;

(iv) The analytical techniques or methods used;

(v) The results of such observations or analyses;

(vi) The operating conditions as they existed at the time of observation, sampling or measurement; and

(vii) Any corrective actions taken.

(b) For any particulate emissions testing required by condition F5, the permittee shall record the opacity as measured during particulate sampling.

(c) For any Method 9 observations required by the Division under conditions F5 or F7, the permittee shall keep field records in accordance with Section 2.2 of Method 9.

(d) For the Method 22 observations required by the Division under conditions F5 and F7, the permittee shall keep field records in accordance with Sections 11.2 and 11.5 of Method 22.

(e) The permittee shall record the date, the type of treatment (water and/or chemical suppressant), and the amount used to control fugitive dust on the haul roads, access roads, and work areas.

(f) 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.

(F12) ADDITIONAL CAM RECORDS [WAQSR Ch 6, Sec 3(h)(i)(C)(II) & Ch 7, Sec 3(i)(ii)]

(a) For the CAM required under condition F7(f), the permittee shall also maintain records of monitoring data, monitor performance data, corrective actions taken, any written Quality Improvement Plan (QIP) required pursuant to WAQSR Ch 7, Sec 3(h), any activities undertaken to implement a QIP, and other supporting information required to be maintained under WAQSR Ch 7, Sec 3.

(b) 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.

Reporting Requirements

(F13) SULFUR DIOXIDE EMISSIONS INVENTORY REPORTS [WAQSR Ch 14, Sec 3(b) and (c)]

(a) The permittee shall report calendar year SO_2 emissions by April 15th of the following year. The inventory shall be submitted in the format specified by the Division.

(b) Emissions from startup, shutdown, and upset conditions shall be included in the inventory.

(c) If the permittee uses a different emission monitoring or calculation method than was used to report SO_2 emissions in 1998, the permittee shall adjust reported SO_2 emissions to be comparable to the emission monitoring or calculation method that was used in 1998. The calculations that are used to make this adjustment shall be included with the annual emission report.

(d) The annual reports shall reference this permit condition (F13) and shall be submitted in accordance with condition G4 of this permit.

(F14) BENTONITE PRODUCTION, COAL USAGE AND COAL SULFUR CONTENT REPORTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III); Ch 6, Sec 2 Permit MD-266]

(a) Annually, the following shall be reported to the Division by January 31:

(i) The monthly totals of bentonite production for the Colony West Plant for the previous calendar year.

(ii) The monthly totals of coal usage at each plant, and the sulfur content of the coal used at the Colony East Plant, for the previous calendar year.

(b) All instances of deviations from the conditions of this permit must be clearly identified in each report.

(c) The annual reports shall reference this permit condition (F14) and shall be submitted in accordance with condition G4 of this permit.

(F15) TESTING AND MONITORING REPORTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III)]

(a) The permittee shall report the results of any emissions tests performed under condition F5 within 45 days of conducting the tests.

(b) The following shall be reported to the Division by January 31 and July 31 each year:

(i) Documentation that the unit and belt/slide heaters (UHTRS & BHTRS) are firing natural gas as specified in condition F7(e).

(ii) Summary results of the visible emissions monitoring required under condition F7(a).

(iii) Summary results of the daily Method 9 observations of the rotary dryer required under condition F7(c) and in accordance with Subpart UUU, and the results of the weekly Method 9 observations required under F7(g).

(iv) Summary results of the CAM monitoring required under condition F7(f) and any corrective actions taken upon detection of non-compliance. This shall include the following:

(A) Summary information on the number, duration, cause of excursions and as applicable, the corrective actions taken;

(B) 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.

(c) All instances of deviations from the conditions of this permit must be clearly identified in each report.

(d) The semiannual reports shall reference this permit condition (F15) and shall be submitted in accordance with condition G4 of this permit.

(F16) 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 notbe sent to the DEQ Air Quality contact.

(F17) 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 PART 60

SUBPART OOO REQUIREMENTS FOR NONMETALLIC MINERAL PROCESSING PLANTS

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

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, enclosed truck or railcar loading station that commenced construction, modification, or reconstruction after August 31, 1983), as defined under §60.670, including units DC-04, DC-10, DC-11, DC-13, DC-14, DC-15, DC-16, RD-2, 19, 3SB & BV-02, and the new elevator for tanks 4, 5 and 6.

SUBPART UUU REQUIREMENTS FOR CALCINERS AND DRYERS IN MINERAL INDUSTRIES

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

The permittee shall meet all applicable requirements of 40 CFR 60 Subparts A and UUU and WAQSR Ch 5, Sec 2 as they apply to affected facilities at mineral processing plants (each calciner and dryer that commenced construction, modification, or reconstruction after April 23, 1986), as defined under §60.731, including the rotary dryer (RD-1).

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 (NESHAPS) AND 40 CFR PART 63

SUBPART ZZZZ REQUIREMENTS FOR STATIONARY RICE (RECIPROCATING INTERNAL COMBUSTION ENGINES)

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

The permittee shall meet all applicable requirements of 40 CFR 63 Subparts A and Subpart 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 F4(c), 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 two generator engines (GEN1 and GEN2).

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

Ch 7, Sec 3 is available at http://deq.state.wy.us/aqd/standards.asp, 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 plans attached as Appendix A of this permit and meet all CAM requirements of WAQSR Chapter 7, Section 3 as they apply to the baghouse controlled equipment as identified in condition F7(f). 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 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 the bentonite production, coal usage and coal sulfur content limits, the permittee shall assess compliance with condition F2 by conducting the monitoring required by condition F6 and reviewing the records maintained in accordance with condition F10.

(ii) For visible emissions from the cat litter packaging line the permittee shall assess compliance with condition F3(a) by conducting the monitoring required by conditionF7(a).

(iii) For visible and particulate emissions from the units listed in condition F3(b), the permittee shall assess compliance with F3(b) and (i) by conducting the monitoring required in condition F7(f).

(iv) For visible and particulate matter emissions from the rotary dryer (RD-1) the permittee shall assess compliance with condition F3(c) and (i) by conducting monitoring required by condition F7(f) and 40 CFR Part 60, Subpart UUU §60.734(b), and any testing required by §60.736.

(v) For fugitive emissions listed in condition F3(c), the permittee shall assess compliance with condition F3(c) by conducting monitoring required by condition F7(b).

(vi) For fugitive emissions from second crusher (MT-2E), the permittee shall assess compliance with condition F3(d) by conducting the monitoring required by condition F7(g).

(vii) For visible emissions from the heaters and generators, the permittee shall assess compliance with condition F3(e) and (f) by verifying natural gas or propane was the sole fuel source as required by condition F7(e).

(viii) For visible and particulate matter emissions, the permittee shall assess compliance with condition F3(e) and (i) by conducting monitoring required by condition F7(f).

(ix) For fugitive dust from haul roads, access roads, and work areas, the permittee shall assess compliance with condition F3(g) by conducting the monitoring required by condition F7(h) and reviewing the records kept in accordance with condition F11(e).

(x) For the sulfur dioxide emissions inventory, the permittee shall assess compliance with condition F1 by reviewing records kept in accordance with condition F9 and verifying reports were submitted in accordance with condition F13.

(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 the rotary dryer (RD-1), the permittee shall assess compliance with 40 CFR 60 Subpart UUU by conducting any applicable testing and monitoring required by §§60.734(b) and 60.736, and by reviewing the records required by §60.735.

(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.

(C4) (a) The permittee shall adhere to the following schedule to bring the generator engines (GEN1 and GEN2) into compliance with applicable requirements:

Milestone	Date
Submit application for a WAQSR Ch 6, Sec 2 permit or waiver for GEN1 and GEN2	Completed
Submit 3-2-090 permit modification application	Within 60 days of receipt of Ch 6, Sec 2 permit

(b) The permittee shall submit quarterly progress reports within 30 days of the end of each calendar quarter. Such progress reports shall be submitted in accordance with condition G4 of this permit and shall contain the following:

(i) Dates for achieving the activities, milestones, or compliance required in the compliance schedule, and dates when such activities, milestones, or compliance were achieved; and

(ii) An explanation of why any dates in the compliance schedule were not or will not be met, and any preventive or corrective measures adopted.

(c) This compliance schedule does not sanction non-compliance with the applicable requirements on which it is based.

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 document submitted shall be certified as being true, accurate, and complete by a responsible official.

(a) Submissions to the Division.

(i) Any submissions to the Division including reports, certifications, and emission inventories required under this permit shall be submitted as separate, stand-alone documents and shall be sent to:

Administrator, Air Quality Division
122 West 25th Street
Cheyenne, Wyoming 82002

(ii) A copy of each submission to the Administrator under paragraph (a)(i) of this condition shall 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 apermit 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 notapply 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'sdecision. 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.

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 fire fighting 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 SO_2 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" as 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 motor vehicle air conditioner (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 air-tight 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	98th percentile 24-hour average concentration	
Nitrogen dioxide	100 micrograms per cubic meter	annual arithmetic mean	3
Sulfur oxides	60 micrograms per cubic meter	annual arithmetic mean	4
	260 micrograms per cubic meter	max 24-hr concentration with not more than one exceedance per year	
	1300 micrograms per cubic meter	max 3-hr concentration with not more than one exceedance per 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	0.08 parts per million	daily maximum 8-hour average	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

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#: **BH-08** Source Description: **Fluid Bed Dryer**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity [F3] 0.01 gr/dscf & 3.0 lb/hr [F3]	WAQSR Ch 6, Sec 2 Permit MD-1590A and waiver AP-7881	Testing if required [F5]	Daily CAM [F7]	Monitoring and CAM records [F11 & F12]	Semiannual: CAM reports [F15] Report excess emissions and permit deviations [F17]
SO_2	Annual coal limit, 0.85% sulfur content [F2]	WAQSR Ch 6, Sec 2 Permits MD-342	Testing if required [F5]	Coal sulfur content and monthly coal use monitoring [F6]	Record monthly coal usage & sulfur content [F10]	Annual: coal reports [F14] Report excess emissions and permit deviations [F17]

Source ID#: **RD-1** Source Description: **Rotary Dryer**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	10 percent opacity. 0.01 gr/dscf & 3.0 lb/hr. MT-2E: crusher fugitives 15% opacity. [F3]	WAQSR Ch 6, Sec 2 Permit/Waiver MD-1590A, AP-7881	Testing if required [F5]	Daily CAM Method 9 observations. Semi-annual crusher fugitive Method 9 observations. [F7]	Record crusher and CAM Method 9 observations, and test results. [F11]	45 days: test results. Semiannual: crusher and CAM Method 9 observations [F15] Report excess emissions and permit deviations [F17]
Particulate	WAQSR Chapter 5, Section 2 and 40 CFR 60 Subparts A and UUU					
SO_2	Annual coal limit, 0.85% sulfur content [F2]	WAQSR Ch 6, Sec 2 Permit MD-342	Testing if required [F5]	Coal sulfur content and monthly coal use monitoring [F6]	Record monthly coal usage & sulfur content [F10]	Annual: coal reports [F14] Report excess emissions and permit deviations [F17]

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#: **DC-01 & DC-02** Source Description: **Rotary Dryer 1 & Rotary Dryer 2**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity. 0.01 gr/dscf & 3.4 lb/hr each [F3]	WAQSR Ch 6, Sec 2 Permit MD-1591A2	Testing if required [F5]	Daily CAM [F7]	Monitoring and CAM records [F11 & F12]	Semiannual: CAM reports [F15] Report excess emissions and permit deviations [F17]
SO_2	600,000 TPY bentonite production. 30,000 TPY coal limit [F2]	WAQSR Ch 6, Sec 2 Permits MD-266	Testing if required [F5]	Monthly bentonite & coal monitoring [F6]	Record monthly bentonite production & coal usage [F10]	Annual: report bentonite production & coal usage [F14] Report excess emissions and permit deviations [F17]

Source ID#: **RD-2, 19, DC-04, DC-13, DC-14, DC-15 & DC-16**

Source Description: **RD Nuisance, Draco Air Slides, Granular Screens, Triangular Packer, Fines Tank, Granular Nuisance Sources, & Orema/Nuisance Sources**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	7 percent opacity and particulate limits in Table 1 [F3]	WAQSR Ch 6, Sec 2 Permits/Waivers MD-1590A, MD-1591A2, AP-8575	Testing if required [F5]	Daily CAM [F7]	Monitoring and CAM records [F11 & F12]	Semiannual: CAM reports [F15] Report excess emissions and permit deviations [F17]
Particulate	WAQSR Chapter 5, Section 2 and 40 CFR 60 Subparts A and OOO					

Source ID#: **PS-1, PD-1, 17A, 17B, 17C, 17D, 18, 26, 27, DC-03, DC-05, DC-06, DC-07, BS-08, BS-09, DC-12**

Source Description: **Old Granular Screen 1, Pre-Dried Clay System, Granular System, Raymond Mill #1, Raymond Mill #2, Nuisance Dust, Storage Silos, #47 Regis Packer, #22 Air Conveying System, Mills 1&2, Screening Area, Packer System, Bulk Loadout, Belt Scale, Belt Scale Hopper, Granular Loadout**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity and particulate limits in Table 1 [F3]	WAQSR Ch 6, Sec 2 Permits MD-1590A, MD-1591A2 and waiver AP-7881	Testing if required [F5]	Daily CAM [F7]	Monitoring and CAM records [F11 & F12]	Semiannual: CAM reports [F15] Report excess emissions and permit deviations [F17]

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#: **BV-01** Source Description: **Coal Silo**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity. Shall be equipped with a bin vent fabric filter [F3]	WAQSR Ch 6, Sec 2 Permit MD-342 and waiver AP-7881	Testing if required [F5]	Daily CAM [F7]	Monitoring and CAM records [F11 & F12]	Semiannual: CAM reports [F15] Report excess emissions and permit deviations [F17]

Source ID#: **BV-02** Source Description: **C&D Outfeed**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	7 percent opacity. 0.01 gr/dscf & 0.3 lb/hr [F3]	WAQSR Ch 6, Sec 2 Permit MD-1590A	Testing if required [F5]	Daily CAM-like observations [F7]	Monitoring records [F11]	Semiannual: report observations [F15] Report excess emissions and permit deviations [F17]
Particulate	WAQSR Chapter 5, Section 2 and 40 CFR 60 Subparts A and OOO					

Source ID#: **3SB** Source Description: **Three Sided Storage Bunker**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	10 percent opacity [F3]	WAQSR Ch 6, Sec 2 Permit MD-1590A	Testing if required [F5]	Monitor per Subpart OOO [F7]	Record any monitoring [F11]	Report excess emissions and permit deviations [F17]
Particulate	WAQSR Chapter 5, Section 2 and 40 CFR 60 Subparts A and 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#: **DC-10 & DC-11** Source Description: **Transfer System & Packaging System (vent inside cat litter packaging building)**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	No visible emissions [F3]	WAQSR Ch 6, Sec 2 Waiver AP-XN2	Testing if required [F5]	Weekly observations [F7]	Record observations [F11]	Semiannual: report observations [F15] Report excess emissions and permit deviations [F17]
Particulate	WAQSR Chapter 5, Section 2 and 40 CFR 60 Subparts A and OOO					

Source ID#: **GEN1 & GEN2** Source Description: **Generac Emergency Generator Engines**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity [F3]	WAQSR Ch 3, Sec 2	Testing if required [F5]	Verification of natural gas firing [F7]	Record any test results [F11]	Semiannual: report type of fuel fired [F15] Report excess emissions and permit deviations [F17]
HAPs	WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ					

Source ID#: **UHTRS & BHTRS** Source Description: **Unit and Belt/Slide Heaters**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity [F3]	WAQSR Ch 3, Sec 2	Testing if required [F5]	Verification of natural gas firing [F7]	Record any test results [F11]	Semiannual: report type of fuel fired [F15] Report excess emissions and permit deviations [F17]
NO_X	UHTRS: 0.20 lb/MMBtu BHTRS: 0.23 lb/MMBtu [F4]	WAQSR Ch 3, Sec 3	Testing if required [F5]	None	Record any test results [F11]	Report excess emissions and permit deviations [F17]

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
AQD	Air Quality Division
BACT	Best available control technology (see Definitions)
Btu	British Thermal Unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
C.F.R.	Code of Federal Regulations
CO	Carbon monoxide
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_2S	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
N/A	Not applicable
NMHC(s)	Non-methane hydrocarbon(s)
NO_X	Oxides of nitrogen
O_2	Oxygen
OPP	Operating Permit Program
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
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_3	Sulfur trioxide
SO_X	Oxides of sulfur
TBD	To be determined
TPD	Ton(s) per day
TPH	Ton(s) per hour
TPY	Tons per year
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 EnvironmentalQuality.

"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 C.F.R. 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 pursuantto 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 monthsbefore 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, orwould 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

CAM PLANS

Colony East

COMPLIANCE ASSURANCE MONITORING PLAN:

FABRIC FILTER FOR PM CONTROL

1. Background
    a. Emissions Units:
        i. Facility: American Colloid Company, Colony East Plant
        ii. Description: Bentonite Processing Plant
        iii. Unit Identification: Rotary Dryer RD-1
    b. Applicable Regulation, Emission Limit and Monitoring Requirements:
        i. Applicable Regulation: WAQSR Chapter 7, Section 3, Operating Permit; NSPS Subpart OOO
        ii. Emissions Limits:
            a. 0.01 gr/DSCF (state)
            b. 0.02 gr/DSCF (Subpart OOO)
        iii. Monitoring Requirements: Opacity Observations
    c. Control Technology:
        i. Fabric Filters

2. Monitoring Approach:
    a. Indicator:
        i. Visible opacity caused by dust from discharge of filter.
    b. Measurement Approach:
        i. The filter exhaust will be observed visually on a daily basis for three six-minute periods (18 minutes total) to determine average opacity of dust being discharged, if any. If average observed opacity exceeds 0% for any six-minute observation period, such will be documented and the unit will be inspected and repaired as necessary at the earliest available time.
        ii. The filter will be observed for three six-minute periods during normal operations (if unit is operating, if not it will be so noted). The fabric filters, 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 three six-minute visual observations is sufficient for indication of malfunction of the fabric filter.
        iii. Finally, the filters will be operated in accordance with manufacturer's specification and recommendations, along with a maintenance plan as outlined in the operating permit.
    c. Indicator Range:

i. The indicator for action is average six-minute opacity greater than 0%.

d. Quality Improvement Plan (QIP) Threshold:
   i. The QIP threshold is 10 excursions in a six-month reporting period.

e. Performance Criteria:
   i. Data Representation: Measurements at the emissions point.
   ii. Verification of Operational Status: Observations will occur during normal operations of the emissions unit.
   iii. *QA/QC* Practices and Criteria:
      1. The observer will be currently certified to perform EPA Method 9.
   iv. Monitoring Frequency and Data Collection Procedure:
      1. Three six-minute visible opacity observations (18 minutes total) will be performed and documented on a daily basis.

3. Justification
   a. Background:
      i. This facility dries, packages and ships bentonite. The emissions are controlled from the individual processes with various fabric filters.
   b. Rationale for Selection of Performance Indicator:
      i. Dust emission opacity was selected as the performance indicator because it is indicative of operation of the filter in a manner necessary to comply with the particulate emissions. When a fabric filter is operated and maintained as per the manufacturer's specifications, there will be very little or no emissions from the exhaust. Therefore, excessive 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:
      i. The selected indicator range is 0% average opacity over a six-minute observation. When an excursion occurs, the equipment will be inspected and repaired as necessary at the earliest possible date. If the opacity is greater than the applicable standard, the equipment will be scheduled to be shut down and repaired as necessary. All repairs and preventative maintenance will be documented in a preventative maintenance plan.
      ii. The frequency of daily observations was selected because a fabric filter 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.

COMPLIANCE ASSURANCE MONITORING PLAN: FABRIC FILTER FOR PM CONTROL

I. Background

A. Emissions Units:

- Facility: American Colloid Company, Colony East Plant
- Description: Entire Facility – Bentonite Processing Plant
- Unit Identification:
  - BH-08 Fluid Bed Dryer
  - BV-01 Coal Silo
  - RD-02 Rotary Dryer Nuisance
  - BV-02 C&D Outfeed
  - PS-1 Primary System
  - PD-1 Pre-Dried Clay System
  - 17A Granular System
  - 17B Raymond Mill #1
  - 17C Raymond Mill #2
  - 17D Nuisance Dust
  - 18 Storage Silos
  - 19 Draco-Air Slides
  - 26 #47 Regis Packer
  - 27 #22 Air Conveying System

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 Filters

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II. Monitoring Approach:

A. Indicator:

- Visible dust from discharge of filter.

B. Measurement Approach:

- The filter will be observed visually on a daily basis to determine if any dust is being discharged. If dust is observed, the opacity will be documented and the unit will be inspected and repaired as necessary at the earliest available time.
- The filter will be observed for one minute during normal operations (if unit is operating, if not it will be so noted). The fabric filters, 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. Additionally, the facilities are manned continuously while operating and individuals are aware of "dusting" and the filters are essentially observed on a continual basis.
- Finally, the filters will be operated in accordance with manufacturer's specification and recommendations, along with a maintenance plan as 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:
The QIP threshold is five excursions in 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:
  - The observer will be familiar with the principles of EPA Method 9.
- Monitoring Frequency and Data Collection Procedure:
  - A one-minute dust observation will be performed on a daily basis.

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III. Justification

A. Background:

- This facility dries, packages and ships bentonite. The emissions are controlled from the individual processes with various fabric filters.

B. Rationale for Selection of Performance Indicator:

- Dust emissions were selected as the performance indicator because they are indicative of operation of the filter in a manner necessary to comply with the particulate emissions and opacity standards. When a fabric filter 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 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 fabric filter 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.

03-31-2008 032090

Colony West

03-31-2008 032090

COMPLIANCE ASSURANCE MONITORING PLAN: FABRIC FILTER FOR PM CONTROL

I. Background

A. Emissions Units:

- Facility: American Colloid Company, Colony West Plant
- Description: Entire Facility – Bentonite Processing Plant
- Unit Identification:
  - DC-01 #1 Dryer
  - DC-02 #2 Dryer
  - DC-03 Mill #1 & #2
  - DC-04 Granular System
  - DC-05 Screening Nuisance
  - DC-06 Packer System
  - DC-07 Bulk Loadout
  - BS-08 Belt Scale #1
  - BS-09 Belt Scale Hopper
  - DC-12 Granular Loadout
  - DC-13 Triangle Packer
  - DC-14 Fines Tank/Nuisance
  - DC-15 Granular Nuisance
  - DC-16 Orema/Nuisance

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 Filters

II. Monitoring Approach:

A. Indicator:
- Visible dust from discharge of filter.

B. Measurement Approach:
- The filter will be observed visually on a daily basis to determine if any dust is being discharged. If dust is observed, the opacity will be documented and the unit will be inspected and repaired as necessary at the earliest available time.
- The filter will be observed for one minute during normal operations (if unit is operating, if not it will be so noted). The fabric filters, 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. Additionally, the facilities are manned continuously while operating and individuals are aware of "dusting" and the filters are essentially observed on a continual basis.
- Finally, the filters will be operated in accordance with manufacturer's specification and recommendations, along with a maintenance plan as 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:
The QIP threshold is five excursions in 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:
  - The observer will be familiar with the principles of EPA Method 9.
- Monitoring Frequency and Data Collection Procedure:
  - 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 filters.

B. Rationale for Selection of Performance Indicator:

- Dust emissions were selected as the performance indicator because they are indicative of operation of the filter in a manner necessary to comply with the particulate emissions and opacity standards. When a fabric filter 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 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 fabric filter 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.