



November 30, 2020

R. Lee Roberts  
Colstrip Energy Limited Partnership  
1087 West River Street, Suite 200  
Boise, ID 83702

RE: Final Title V Operating Permit Renewal #OP2035-04

Dear Mr. Roberts:

The Department of Environmental Quality has prepared the enclosed the Final Renewal Operating Permit #OP2035-04, for Colstrip Energy Limited Partnership, located in Northeast ¼ of Section 32, Township 3 North, Range 41 East in Rosebud County, Montana. Please review the cover page of the attached permit for information pertaining to the action taking place on Permit #OP2035-04.

If you have any questions, please contact Craig Henrikson, at (406) 444-6711 or by email at [chenrikson@mt.gov](mailto:chenrikson@mt.gov).

Sincerely,

A handwritten signature in black ink that reads "Julie A. Merkel".

Julie A. Merkel  
Air Permitting Supervisor  
Air Resources Management Bureau  
(406) 444-3626

A handwritten signature in black ink that reads "Craig Henrikson".

Craig Henrikson  
Air Permitting Section  
Air Quality Bureau  
(406) 444-6711

JM:CH

Enclosure

cc: Gail Fallon, US EPA Region VIII 8P-AR  
Bob Gallagher, US EPA Region VIII, Montana Office



STATE OF MONTANA  
Department of Environmental Quality  
Helena, Montana 59620



**AIR QUALITY OPERATING PERMIT: OP2035-04**

Issued to: Colstrip Energy Limited Partnership  
1087 West River Street, Suite 200  
Boise, ID 83702

Final Date: **November 27, 2020**  
Expiration Date: **November 27, 2025**  
Renewal Application Due: **May 27, 2025**

Effective Date: **November 27, 2020**  
Date of Decision: **October 27, 2020**

Administrative Amendment Application Received: **June 20, 2019**  
Application Deemed Administratively Complete: **June 20, 2019**  
Application Deemed Technically Complete: **June 20, 2019**

**Permit Issuance and Appeal Process:** In accordance with Montana Code Annotated (MCA) Sections 75-2-217 and 218 and the Administrative Rules of Montana (ARM), ARM Title 17, Chapter 8, Subchapter 12, Operating Permit Program, this operating permit is hereby issued by the Department of Environmental Quality (Department) as effective and final on November 27, 2020. This permit must be kept on-site at the above-named facility.

Montana Air Quality Operating Permit  
Department of Environmental Quality

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Terms not otherwise defined in this permit or in the Definitions and Abbreviations Appendix of this permit have the meaning assigned to them in the referenced regulations.

## SECTION I. GENERAL INFORMATION

The following general information is provided pursuant to ARM 17.8.1210(1).

**Company Name:** Colstrip Energy Limited Partnership (CELP)

**Mailing Address:** 1087 West River Street, Suite 200

**City:** Boise

**State:** Idaho

**Zip:** 83702

**Plant Location:** Six miles north of Colstrip on Highway 39

**Responsible Official:** R. Lee Roberts, President

**Phone:** (208)344-3570

**Facility Contact Person:** Scott Siddoway

**Phone:** (208)344-3570

**Primary SIC Code:** 49

**Nature of Business:** Electric Energy Generation

### Description of Process:

The Rosebud Power Plant is an electric generating facility designed to burn low-British thermal unit (Btu) waste coal from mining operations east of Billings, Montana. The facility uses a circulating fluidized bed (CFB) boiler that is designed to efficiently utilize low-Btu coal while also allowing a high recovery of fuel sulfur through the injection of limestone into the fluidized bed. The boiler is rated for 37 MW gross and 485 MBtu/hr.

Coal is delivered to this facility using covered trucks and trailers and typically deposited directly to the truck hopper (80 ton capacity), and the boiler coal bunkers (1700 ton capacity). In addition CELP maintains a 25,000 ton open coal storage pile to ensure a continuous supply of dry coal is available.

The coal is crushed in primary and secondary crushers and then conveyed directly to the boiler house coal bunker. The crushed coal is metered to the fluidized portion of the boiler using gravimetric feeders.

Limestone is delivered to this facility in trucks and trailers and is pneumatically unloaded into an 820 ton silo. From the silo, limestone is metered to the boiler using gravimetric feeders and a pressure pneumatic conveying system. In the boiler, the coal is burned at relatively low temperatures to minimize the formation of nitrogen oxides (NO<sub>x</sub>). Limestone is injected with the waste coal prior to combustion where the limestone releases carbon dioxide (CO<sub>2</sub>) that subsequently reacts with combustion gases to control sulfur dioxide (SO<sub>2</sub>) emissions.

Ash from the boiler is discharged as either bedash or flyash. Both types of ash are collected in separate systems and conveyed pneumatically to a common ash silo. The combined ash is unloaded

periodically into a plant ash truck and transported to an on-site disposal area, or transported off-site to third party users.

## SECTION II. SUMMARY OF EMISSION UNITS

The emission units regulated by this permit are the following (ARM 17.8.1211):

Emissions Unit ID	Description	Pollution Control Device/Practice
EU001	Truck Transport of Coal	Reasonable Precautions and Covered Haul Trucks
EU002	Truck Unloading of Coal	Baghouse
EU003	Coal Crushing and Transport	Baghouse
EU004	Coal Bunker Bin Vents	Baghouses
EU005	Limestone Unloading, Handling, and Storage	Fabric Filter Baghouse and Cartridge Filter
EU006	Circulating Fluidized Bed Boiler	Baghouse, Limestone Injection, and Low-Temperature Combustion
EU007	Flyash Conveying and Storage	Baghouse
EU008	Bedash Conveying and Storage	Baghouse
EU009	Ash Storage Silo Unloading	Baghouse
EU010	Ash Truck Unloading	Water Spray
EU011	Fugitive Emissions: Ash Disposal Area	Water Spray
EU012	Fugitive Emissions: Vehicle Traffic	Paving or chemical dust suppression or water spray as backup
EU013	Open Coal Storage Piles (Two)	Reasonable Precautions
EU014	Diesel-Fired Emergency Boiler Feed Pump	Engine Design
EU015	Diesel-Fired Fire Water Supply Pump	Engine Design
EU016	Diesel-Fired Portable Welder	Engine Design

### SECTION III. PERMIT CONDITIONS

The following requirements and conditions are applicable to the facility or to specific emission units located at the facility (ARM 17.8.1211, 1212, and 1213).

#### A. Facility-Wide

Conditions	Rule Citation	Rule Description	Pollutant/Parameter	Limit
A.1	ARM 17.8.105	Testing Requirements	Testing Requirements	-----
A.2	ARM 17.8.304(1)	Visible Air Contaminants	Opacity	40%
A.3	ARM 17.8.304(2)	Visible Air Contaminants	Opacity	20%
A.4	ARM 17.8.308(1)	Particulate Matter, Airborne	Fugitive Opacity	20%
A.5	ARM 17.8.308(2)	Particulate Matter, Airborne	Reasonable Precautions	-----
A.6	ARM 17.8.308	Particulate Matter, Airborne	Reasonable Precaution, Construction	20%
A.7	ARM 17.8.309	Particulate Matter, Fuel Burning Equipment	Particulate Matter	$E = 0.882 * H^{-0.1664}$ Or $E = 1.026 * H^{-0.233}$
A.8	ARM 17.8.310	Particulate Matter, Industrial Processes	Particulate Matter	$E = 4.10 * P^{0.67}$ or $E = 55 * P^{0.11 - 40}$
A.9	ARM 17.8.322(4)	Sulfur Oxide Emissions, Sulfur in Fuel	Sulfur in Fuel (liquid or solid fuels)	1 lb/MMBtu fired
A.10	ARM 17.8.322(5)	Sulfur Oxide Emissions, Sulfur in Fuel	Sulfur in Fuel (gaseous)	50 gr/100 CF
A.11	ARM 17.8.324(3)	Hydrocarbon Emissions, Petroleum Products	Gasoline Storage Tanks	-----
A.12	ARM 17.8.324	Hydrocarbon Emissions, Petroleum Products	65,000 Gallon Capacity	-----
A.13	ARM 17.8.324	Hydrocarbon Emissions, Petroleum Products	Oil-effluent Water Separator	-----
A.14	ARM 17.8.342	NESHAPs General Provisions	SSM Plans	Submittal
A.15	ARM 17.8.1211(1)(c) and 40 CFR Part 98	Greenhouse Gas Rule	Reporting	-----
A.16	ARM 17.8.1212	Reporting Requirements	Prompt Deviation Reporting	-----
A.17	ARM 17.8.1212	Reporting Requirements	Compliance Monitoring	-----
A.18	ARM 17.8.1207	Reporting Requirements	Annual Certification	-----

#### Conditions

- A.1. Pursuant to ARM 17.8.105, any person or persons responsible for the emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct test, emission or ambient, for such periods of time as may be necessary using methods approved by the Department.



Compliance demonstration frequencies that list “as required by the Department” refer to ARM 17.8.105. In addition, for such sources, compliance with limits and conditions listing “as required by the Department” as the frequency, is verified annually using emission factors and engineering calculations by the Department’s compliance inspectors during the annual emission inventory review; in the case of Method 9 tests, compliance is monitored during the regular inspection by the compliance inspector.

- A.2. Pursuant to ARM 17.8.304(1), CELP shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed on or before November 23, 1968, that exhibit an opacity of 40% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.
- A.3. Pursuant to ARM 17.8.304(2), CELP shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.
- A.4. Pursuant to ARM 17.8.308(1), CELP shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.
- A.5. Pursuant to ARM 17.8.308(2), CELP shall not cause or authorize the use of any street, road or parking lot without taking reasonable precautions to control emissions of airborne particulate matter, unless otherwise specified by rule or in this permit.
- A.6. Pursuant to ARM 17.8.308, CELP shall not operate a construction site or demolition project unless reasonable precautions are taken to control emissions of airborne particulate matter. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.
- A.7. Pursuant to ARM 17.8.309, unless otherwise specified by rule or in this permit, CELP shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of the maximum allowable emissions of particulate matter for existing fuel burning equipment and new fuel burning equipment calculated using the following equations:

For existing fuel burning equipment (installed before November 23, 1968):  
 $E = 0.882 * H^{-0.1664}$

For new fuel burning equipment (installed on or after November 23, 1968):  
 $E = 1.026 * H^{-0.233}$

Where H is the heat input capacity in million BTU (MMBtu) per hour and E is the maximum allowable particulate emissions rate in pounds per MMBtu.

A.8. Pursuant to ARM 17.8.310, unless otherwise specified by rule or in this permit, CELP shall not cause or authorize particulate matter to be discharged from any operation, process, or activity into the outdoor atmosphere in excess of the maximum hourly allowable emissions of particulate matter calculated using the following equations:

For process weight rates up to 30 tons per hour:  $E = 4.10 * P^{0.67}$   
For process weight rates in excess of 30 tons per hour:  $E = 55.0 * P^{0.11} - 40$   
Where E = rate of emissions in pounds per hour and p = process weight rate in tons per hour.

- A.9. Pursuant to ARM 17.8.322(4), CELP shall not burn liquid or solid fuels containing sulfur in excess of 1 pound per million BTU fired, unless otherwise specified by rule or in this permit.
- A.10. Pursuant to ARM 17.8.322(5), CELP shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide (H<sub>2</sub>S) at standard conditions, unless otherwise specified by rule or in this permit.
- A.11. Pursuant to ARM 17.8.324(3), CELP shall not load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank is equipped with a vapor loss control device or is a pressure tank as described in ARM 17.8.324(1), unless otherwise specified by rule or in this permit.
- A.12. Pursuant to ARM 17.8.324, unless otherwise specified by rule or in this permit, CELP shall not place, store or hold in any stationary tank, reservoir or other container of more than 65,000 gallon capacity any crude oil, gasoline or petroleum distillate having a vapor pressure of 2.5 pounds per square inch absolute (psia) or greater under actual storage conditions, unless such tank, reservoir or other container is a pressure tank maintaining working pressure sufficient at all times to prevent hydrocarbon vapor or gas loss to the atmosphere, or is designed and equipped with a vapor loss control device, properly installed, in good working order and in operation.
- A.13. Pursuant to ARM 17.8.324, unless otherwise specified by rule or in this permit, CELP shall not use any compartment of any single or multiple-compartment oil-effluent water separator, which compartment receives effluent water containing 200 gallons a day or more of any petroleum product from any equipment processing, refining, treating, storing or handling kerosene or other petroleum product of equal or greater volatility than kerosene, unless such compartment is equipped with a vapor loss control device, constructed so as to prevent emission of hydrocarbon vapors to the atmosphere, properly installed, in good working order and in operation.
- A.14. Pursuant to ARM 17.8.342 and 40 CFR 63.6, CELP shall submit to the Department a copy of any startup, shutdown, and malfunction (SSM) plan required under 40 CFR 63.6(e)(3) within 30 days of the effective date of this operating permit (if not previously submitted), within 30 days of the compliance date of any new National Emission Standard for Hazardous Air Pollutants (NESHAPs) or Maximum Achievable Control Technology (MACT) standard, and within 30 days of the revision of any such SSM plan, when

applicable. The Department requests submittal of such plans in electronic form, when possible.

- A.15. Pursuant to ARM 17.8.1211(1)(c) and 40 CFR Part 98, CELP shall comply with requirements of 40 CFR Part 98 – Mandatory Greenhouse Gas Reporting, as applicable (ARM 17.8.1211(1)(c), NOT an applicable requirement under Title V).
- A.16. CELP shall promptly report deviations from permit requirements including those attributable to upset conditions, as upset is defined in the permit. To be considered prompt, deviations shall be reported to the Department using the schedule and content as described in Section V.E (unless otherwise specified in an applicable requirement) (ARM 17.8.1212).
- A.17. On or before February 15 and August 15 of each year, CELP shall submit to the Department the compliance monitoring reports required by Section V.D. These reports must contain all information required by Section V.D, as well as the information required by each individual emissions unit. For the reports due by February 15 of each year, CELP may submit a single report, provided that it contains all the information required by Section V.B & V.D. Per ARM 17.8.1207,

*any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12 (including semiannual monitoring reports), shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12, shall state that, “based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.”*

- A.18. By February 15 of each year, CELP shall submit to the Department the compliance certification report required by Section V.B. The annual certification report required by Section V.B must include a statement of compliance based on the information available which identifies any observed, documented or otherwise known instance of noncompliance for each applicable requirement. Per ARM 17.8.1207,

*any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12 (including annual certifications), shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12, shall state that, “based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.”*

**B. EU001 – Truck Transport of Coal**

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
B.1, B.2, B.3, B.4, B.5, B.6, B.7, B.8	Opacity	20%	Covered haul trucks and paving or chemical dust	Ongoing	Semiannual

B.2, B.3, B.4, B.5, B.7, B.8	Particulate Matter	Reasonable Precautions	suppressants and water		
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### Conditions

- B.1. CELP shall not cause or authorize emissions to be discharged into the outdoor atmosphere from the emitting unit that exhibit opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(1)).
- B.2. CELP shall not cause or authorize the production, handling transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308(1)).

### Compliance Demonstration

- B.3. Coal haul trucks shall be covered during hauling operations (ARM 17.8.749).
- B.4. All haul roads shall use either paving or chemical dust suppression to limit excessive fugitive dust, with water as a backup measure to maintain compliance with the limits in Section III.B.1 and III.B.2 (ARM 17.8.1213).

### Recordkeeping

- B.5. CELP shall maintain on site a log documenting compliance with Sections III.B.3 and III.B.4. With respect to Section III.B.3, the log shall reflect any time a coal truck enters the plant site without a cover. When chemical dust suppression or water are applied to control emissions, a log including, but not limited to, the date, time, name of person completing log, a description of the area of application, and a description of what material was applied shall be maintained. The log shall be available to the Department for inspection and must be submitted to the Department upon request. (ARM 17.8.1212).

### Reporting

- B.6. All compliance source testing results shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).
- B.7. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- B.8. The semiannual compliance monitoring report shall provide a summary of any exceedance or deviation from a limit or requirement established within Section III.B (ARM 17.8.1212).

**C. EU002 – Truck Unloading of Coal; EU003 – Coal Crushing and Transport; EU004 – Coal Bunker Bin Vents**

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
C.1, C.7, C.8, C.12, C.13, C.14, C.16, C.17, C.18	Opacity	20%	Enclosed Structure and Baghouse	Ongoing	Semiannual
			Method 9	As required by the Department and Section III.A.1	Semiannual
C.2, C.3, C.4, C.7, C.9, C.12, C.13, C.14, C.16, C.17, C.18	PM <sub>10</sub>	0.005 gr/dscf (EU002)	Enclosed structures and baghouses	Ongoing	Semiannual
		0.006 gr/dscf (EU003) 0.01 gr/dscf (EU004)	Method 201A	As required by the Department and Section III.A.1	Semiannual
C.5, C.10, C.14, C.17, C.18	Stack Heights	40 feet above the ground	Certify and Maintain	Ongoing	Annual
C.6, C.11, C.15, C.17, C.18	40 CFR 60, Subpart Y	40 CFR 60, Subpart Y	40 CFR 60, Subpart Y	40 CFR 60, Subpart Y	Semiannual

**Conditions**

- C.1. CELP may not cause or authorize emissions from the Truck Unloading of Coal, the Coal Crushing and Transport, and the Coal Bunker Bin Vents to be discharged into the outdoor atmosphere that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- C.2. The routine unloading of coal, not placed in the outdoor storage pile, shall be in an enclosed structure and controlled by a baghouse for particulate control. Particulate matter less than 10 microns (PM<sub>10</sub>) emissions from the baghouse shall not exceed 0.005 grains/dry standard cubic feet (gr/dscf) (ARM 17.8.752).
- C.3. The coal crushing, screening, and transfer emissions shall be in an enclosed structure and controlled by a baghouse for particulate control. PM<sub>10</sub> emissions from the baghouse shall not exceed 0.006 gr/dscf (ARM 17.8.752).
- C.4. The Coal Storage Bunker shall be in an enclosed structure and controlled by two baghouses for particulate control. Particulate emissions from each baghouse shall not exceed 0.01 gr/dscf (ARM 17.8.752).
- C.5. CELP shall maintain the stacks of the coal dump baghouse and the coal crushing baghouse 40 feet above the ground (ARM 17.8.749).
- C.6. CELP shall comply with all applicable standards and limitations, and the reporting, recordkeeping, and notification requirements contained in 40 Code of Federal Regulation

(CFR) 60, Subpart Y, Standards of Performance for Coal Preparation and Processing Plants (ARM 17.8.340 and 40 CFR 60, Subpart Y).

### **Compliance Demonstration**

- C.7. CELP shall use and maintain structural enclosures surrounding process equipment and operate and maintain baghouses to demonstrate compliance with Sections III.C.2, III.C.3, and III.C.4 (ARM 17.8.1213).
- C.8. A Method 9 test shall be performed, as required by the Department and Section III.A.1, to demonstrate compliance with the opacity limit in Section III.C.1. The test methods and procedures shall be in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).
- C.9. A Method 201A (filterable) or other approved method shall be performed, as required by the Department and Section III.A.1, to demonstrate compliance with Sections III.C.2, III.C.3, and III.C.4. The test methods and procedures shall be in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).
- C.10. CELP shall comply with the stack height requirements for the coal dump baghouse and the coal crushing baghouse as specified in Section III.C.5 with initial certification of compliance and maintaining the stack height on an ongoing basis (ARM 17.8.1213).
- C.11. CELP shall comply with all applicable requirements, including emission limitations, monitoring, recordkeeping, reporting, and testing requirements contained in 40 CFR 60, Subpart Y (ARM 17.8.340 and 40 CFR 60, Subpart Y).

### **Recordkeeping**

- C.12. All source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1212).
- C.13. CELP shall maintain on site, a log of all maintenance, repair and corrective action performed on the structural enclosure and baghouses. The log shall include, but is not limited to, the identification of the enclosure or baghouse, the date of the maintenance and/or corrective action, the name(s) of repair personnel, description of the maintenance activity and the item(s) repaired or replaced. The log shall be available to the Department for inspection and must be submitted to the Department upon request (ARM 17.8.1212).
- C.14. CELP shall maintain on site a coal dump and crushing baghouse log documenting any stack specifications that deviate from the height specified in Section III.C.5. At a minimum, the coal dumping and crushing baghouse log shall include the required information, the date, and the initials of the documenting personnel (ARM 17.8.1212).
- C.15. CELP shall perform recordkeeping as required by 40 CFR 60, Subpart Y (ARM 17.8.340 and 40 CFR 60, Subpart Y).

## Reporting

- C.16. All compliance source test reports must be submitted in accordance with Montana Source Test Protocol and Procedure Manual (ARM 17.8.106 and ARM 17.8.1212).
- C.17. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- C.18. The semiannual monitoring report shall provide (ARM 17.8.1212):
- A summary of results of any source testing that was performed in that semiannual period;
  - A summary of recorded maintenance, repair, and corrective actions taken during the period as defined within Section III.C.13;
  - A summary of any exceedance or deviation from a limit or requirement established within Section III.C; and,
  - A summary of compliance with the applicable requirements of 40 CFR 60, Subpart Y.

## D. EU005 – Limestone Unloading, Handling, and Storage

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
D.1, D.3, D.4, D.6, D.7, D.8, D.9, D.10	Opacity	20%	Enclosed Structure and Baghouse	Ongoing	Semiannual
			Method 9	As required by the Department and Section III.A.1	Semiannual
D.2, D.3, D.4, D.5, D.6, D.7, D.8, D.9, D.10	Particulate matter	0.01 gr/dscf	Enclosed Structure and Baghouse	Ongoing	Semiannual
			Method 201A	As required by the Department and Section III.A.1	Semiannual

## Conditions

- D.1. CELP may not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304).
- D.2. Limestone truck unloading, handling, and storage shall be controlled by a baghouse. Particulate emissions from the baghouse shall not exceed 0.01 gr/dscf (ARM 17.8.752).

## Compliance Demonstration

- D.3. A Method 9 test shall be performed, as required by the Department and Section III.A.1, to demonstrate compliance with the opacity limit in Section III.D.1. The test methods and

procedures shall be in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).

- D.4. CELP shall use and maintain structural enclosures surrounding process equipment and operate and maintain baghouses to demonstrate compliance with Section III.D.1 and III.D.2 (ARM 17.8.1213).
- D.5. A Method 201A (filterable) or other approved method shall be performed, as required by the Department and Section III.A.1, to demonstrate compliance with Section III.D.2. The test methods and procedures shall be in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).

**Recordkeeping**

- D.6. All source test recordkeeping shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).
- D.7. CELP shall maintain on site, a log of all maintenance, repair, and corrective action performed on the structural enclosures and baghouses. The log shall include, but is not limited to, the identification of the enclosure or baghouse, the date of the maintenance and/or corrective action, the name(s) of repair personnel, description of the maintenance activity and the item(s) repaired or replaced. The log shall be available to the Department for inspection and must be submitted to the Department upon request (ARM 17.8.1212).

**Reporting**

- D.8. Any compliance source test reports must be submitted in accordance with Montana Source Test Protocol and Procedure Manual (ARM 17.8.106).
- D.9. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- D.10. The semiannual monitoring report shall provide (ARM 17.8.1212):
  - a. A summary of results of the last source testing that was performed in that semiannual period;
  - b. A summary of recorded maintenance, repair, and corrective actions taken during the period as defined within Section III.D.7; and
  - c. A summary of any exceedance or deviation from a limit or requirement established within Section III.D.

**E. EU006 – Circulating Fluidized Bed Boiler**

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
	Opacity	20%/27%	COMS	Ongoing	Quarterly



Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
E.1, E.14, E.15, E.31, E.41, E.47			Method 9	As required by the Department and Section III.A.1	Semiannual
E.2, E.17, E.21, E.24, E.31, E.32, E.41, E.42, E.47	PM <sub>10</sub>	26.28 tons/year 144.0 lbs/day 6.0 lbs/hour	Method 201A	Annual	Semiannual
E.2, E.16, E.18, E.25, E.31, E.34, E.41, E.42, E.46, E.47	SO <sub>2</sub>	1,840 tons/year 5.04 tons/day 432 lbs/hour (3-hour) 574 lbs/hour (1-hour)	CEMS	Ongoing	Quarterly
			Method 6/6A	As required by the Department and Section III.A.1	Semiannual
E.2, E.16, E.19, E.31, E.34, E.41, E.42, E.46, E.47	NO <sub>x</sub>	1,435 tons/year 7,864 lbs/day 328 lbs/hour	CEMS	Ongoing	Quarterly
			Method 7/7E	As required by the Department and Section III.A.1	Semiannual
E.2, E.16, E.20, E.31, E.34, E.41, E.42, E.46, E.47	CO	232 tons/year 1,272 lbs/day 53 lbs/hour	CEMS	Ongoing	Quarterly
			Method 10	As required by the Department and Section III.A.1	Semiannual
E.2, E.21, E.32, E.46, E.47	Emission Control Equipment	Operation and maintenance of a baghouse	Operation and maintenance of a baghouse	Ongoing	Semiannual
E.4, E.22, E.46, E.47	Stack Heights	200 feet	Reporting	Annual	Annual
E.5, E.23, E.33, E.46, E.47	Fuel Burning	More than 25% by weight coal refuse on an annual basis	Reporting	Annual	Annual
E.6, E.24, E.35, E.46, E.47	PM CAM Plan	ARM 17.8.1506	Provisions from CAM Plan, Appendix F	Ongoing	Semiannual
E.7, E.25, E.36, E.46, E.47	SO <sub>2</sub> CAM Plan	ARM 17.8.1506	Provisions from CAM Plan, Appendix G	Ongoing	Semiannual
E.8, E.26, E.37, E.43, E.46, E.47	Mercury Emissions	0.9 lb/TBtu	MEMS	Ongoing	Semiannual
E.9, E.10, E.27, E.38, E.46, E.47	Mercury Emission Control Equipment	Mercury oxidizer/sorbent handling system	Log	Ongoing	Semiannual
E.11, E.28, E.37, E.43, E.46, E.47	40 CFR Part 75	40 CFR Part 75	40 CFR Part 75	Ongoing	Semiannual
E.12, E.29, E.39, E.44, E.46, E.47	40 CFR 60, Subpart Da	40 CFR 60, Subpart Da	40 CFR 60, Subpart Da	40 CFR 60, Subpart Da	Semiannual

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
E.13, E.30, E.40, E.45, E.46, E.47	40 CFR 63, Subpart UUUUU	40 CFR 63, Subpart UUUUU	40 CFR 63, Subpart UUUUU	40 CFR 63, Subpart UUUUU	Semiannual

### Conditions

- E.1. CELP shall not cause to be discharged into the atmosphere from any affected facility any gases that exhibit greater than 20% opacity (6 minute average) except for one 6-minute period per hour of not more than 27% opacity (ARM 17.8.340 and 40 CFR 60.42Da(b)).
- E.2. CELP shall operate and maintain a baghouse on the CFB boiler. The CFB boiler's emissions for the pollutants listed below shall not exceed the following for the times identified (ARM 17.8.749).

Pollutant	Annual	Daily	3-Hour	1-Hour
SO <sub>2</sub>	1,840 tons	5.04 tons	432 lbs/hr	574 lbs
NO <sub>x</sub>	1,435 tons	7,864 lbs	-----	328 lbs
CO	232 tons	1,272 lbs	-----	53 lbs
PM <sub>10</sub>	26.28 tons	144.0 lbs	-----	6.0 lbs

- E.3. CELP shall install and operate the following Continuous Emission Monitoring Systems (CEMS) on the boiler stack outlet. The monitors shall comply with the applicable provisions of 40 CFR 60, Subpart A, Part 60.7 through 60.13; Appendix B, Specifications 1, 2, 3 and 4; Appendix F; and the requirements including, but not limited to, the requirements within Appendix E of this permit (ARM 17.8.749):
- SO<sub>2</sub>
  - NO<sub>x</sub>
  - Carbon Monoxide (CO)
  - Opacity
  - Oxygen (O<sub>2</sub>) or CO<sub>2</sub>
- E.4. The exhaust from the CFB boiler shall be discharged from a two hundred foot stack (ARM 17.8.749).
- E.5. CELP shall burn fuel containing more than 25%, by weight, coal refuse on an annual basis (ARM 17.8.749).
- E.6. CELP shall provide a reasonable assurance of compliance with emission limitations or standards for the anticipated range of operations at the Circulating Fluidized Bed Boiler for PM<sub>10</sub> (ARM 17.8.1504).
- E.7. CELP shall provide a reasonable assurance of compliance with emission limitations or standards for the anticipated range of operations at the Circulating Fluidized Bed Boiler for SO<sub>2</sub> (ARM 17.8.1504).

- E.8. Emissions of mercury from the boiler shall not exceed 0.9 pounds per trillion British thermal units (lb/TBtu), calculated as a rolling 12-month average (ARM 17.8.771).
- E.9. CELP shall operate and maintain a mercury control system that oxidizes and sorbs emission of mercury (ARM 17.8.771).
- E.10. CELP shall operate and maintain the mercury oxidizer/sorbent handling system, including the bin vent filter system, to provide the maximum air pollution control for that which the system was designed (ARM 17.8.749).
- E.11. CELP shall install and operate a Mercury Emission Monitoring System (MEMS) on the boiler stack outlet. The MEMS shall comply with the monitoring, recordkeeping, and reporting provisions of 40 CFR Part 75 and the requirements included in Appendix H (ARM 17.8.771).
- E.12. CELP shall comply with all of the applicable requirements, including emission limitations, monitoring, recordkeeping, reporting, and testing requirements, of 40 CFR 60, Subpart Da – Standards of Performance for Electric Utility Steam Generating Units (ARM 17.8.340 and 40 CFR 60, Subpart Da).
- E.13. CELP shall comply with all of the applicable requirements, including emission limitations, monitoring, recordkeeping, reporting, and testing requirements, of 40 CFR 63, Subpart UUUUU – National Emissions Standards for Hazardous Air Pollutants: Coal- and Oil Fired Electric Utility Steam Generating Units (ARM 17.8.342 and 40 CFR 63, Subpart UUUUU).

### **Compliance Demonstration**

- E.14. A Method 9 test shall be performed, as required by the Department and Section III.A.1, to demonstrate compliance with the opacity limit in Section III.E.1. The test methods and procedures shall be in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).
- E.15. CELP shall operate and maintain the continuous opacity monitor (COM) to demonstrate compliance with the opacity limitation in Section III.E.1. Operation and maintenance of the COMS shall be performed in accordance with Appendix E of this permit (ARM 17.8.1213).
- E.16. CELP shall operate and maintain the CEMS to demonstrate compliance with the SO<sub>2</sub>, NO<sub>x</sub> and CO limit within Section III.E.2. The operation and maintenance of the CEMS required within Section III.E.3 shall be performed in accordance with Appendix E of this permit (ARM 17.8.1213).
- E.17. EPA Method 201A (filterable) test shall be performed, as required by the Department and Section III.A.1, to demonstrate compliance with the PM<sub>10</sub> limit in Section III.E.2. The test methods and procedures shall be in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).
- E.18. As required by the Department and Section III.A.1, CELP shall perform a Method 6 or other Department approved test method to monitor compliance with the SO<sub>2</sub> emissions limit in Section III.E.2 (ARM 17.8.1213).

- E.19. As required by the Department and Section III.A.1, CELP shall perform a Method 7 or other Department approved test method to monitor compliance with the NO<sub>x</sub> emission limit in Section III.E.2 (ARM 17.8.1213).
- E.20. As required by the Department and Section III.A.1, CELP shall perform a Method 10 or other Department approved test method to monitor compliance with the CO emission limit in Section III.E.2 (ARM 17.8.1213).
- E.21. CELP shall operate and maintain a baghouse to demonstrate compliance with the requirements in Section III.E.2 (ARM 17.8.1213).
- E.22. CELP shall verify that the CFB boiler stack height was maintained at 200 feet as specified in Section III.E.4 (ARM 17.8.1213).
- E.23. CELP shall report annually the amount of coal consumed (tons) and the amount of coal refuse consumed (tons) at the facility over the previous 12 months to demonstrate compliance with the requirements in Section III.E.5 (ARM 17.8.1213).
- E.24. CELP shall monitor compliance by following the Compliance Assurance Monitoring (CAM) Plan for PM<sub>10</sub> (Appendix F). The CAM Plan, written by CELP in accordance with ARM 17.8.1504 is summarized in Appendix F and is available in full upon request by the Department or the facility (ARM 17.8.1503 and ARM 17.8.1213).
- E.25. CELP shall monitor compliance by following the Compliance Assurance Monitoring (CAM) Plan for SO<sub>2</sub> (Appendix G). The CAM Plan, written by CELP in accordance with ARM 17.8.1504 is summarized in Appendix G and is available in full upon request by the Department or the facility (ARM 17.8.1503 and ARM 17.8.1213).
- E.26. CELP shall monitor compliance with the mercury emission limit in Section III.E.8 through operation and maintenance of a Mercury Emission Monitoring System (MEMS) on the boiler stack outlet. The MEMS shall also comply with the monitoring, recordkeeping, and reporting provisions of 40 CFR Part 75 and the requirements included in Appendix H of this permit (ARM 17.8.1213).
- E.27. Monitoring compliance with the requirements for the installation and operation of mercury oxidizer/sorbent handling system shall be accomplished through recordkeeping (ARM 17.8.1213).
- E.28. Compliance monitoring for the operating, reporting, recordkeeping, and notification requirements contained in 40 CFR Part 75 shall be accomplished as described in 40 CFR 75 (ARM 17.8.340 and 40 CFR 75).
- E.29. CELP shall meet the requirement for demonstration of compliance and testing procedures of 40 CFR 60, Subpart Da (ARM 17.8.1213 and 40 CFR 60, Subpart Da).
- E.30. CELP shall meet the requirement for demonstration of compliance and testing procedures of 40 CFR 63, Subpart UUUUU (ARM 17.8.1213 and 40 CFR 63, Subpart UUUUU).

## Recordkeeping

- E.31. All source test recordkeeping shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).
- E.32. CELP shall maintain on site a log of the average daily pressure differential across the baghouse when the baghouse is operating. The log shall include, but is not limited to, the date and time of the measurement and the pressure differential reading. In addition, CELP shall maintain a log of all maintenance, repair, and corrective actions performed on the baghouse. The log shall include, but is not limited to, the identification information for the baghouse, the date of the maintenance and/or corrective action, the name(s) repair personnel, description of the maintenance activity and the item(s) repaired or replaced. The logs shall be available to the Department for inspection and must be submitted to the Department upon request (ARM 17.8.1212).
- E.33. CELP shall maintain a log on site of the amount of coal consumed (tons) and the amount of coal refuse consumed (tons) at the facility (ARM 17.8.1212).
- E.34. Records shall be prepared and data kept in accordance with the CEMS Appendix E of this permit (ARM 17.8.1212).
- E.35. CELP shall prepare and keep data in accordance with 40 CFR Part 64 and the CAM Plan for PM, Appendix F of this permit (ARM 17.8.1212 and 40 CFR Part 64).
- E.36. CELP shall prepare and keep data in accordance with 40 CFR Part 64 and the CAM Plan for SO<sub>2</sub>, Appendix G of this permit (ARM 17.8.1212 and 40 CFR Part 64).
- E.37. Records shall be prepared and data kept in accordance with 40 CFR Part 75 and Appendix H of this permit (ARM 17.8.1212 and 40 CFR 75).
- E.38. CELP shall record in a log the date, time, and duration of any incident where the mercury oxidizer/sorbent handling system is not maintained or operational (ARM 17.8.1212).
- E.39. CELP shall conduct recordkeeping as required by 40 CFR 60, Subpart Da (ARM 17.8.1212 and 40 CFR 60, Subpart Da).
- E.40. CELP shall conduct recordkeeping as required by 40 CFR 63, Subpart UUUUU (ARM 17.8.1212 and 40 CFR 63, Subpart UUUUU).

## Reporting

- E.41. All source testing results must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1212 and ARM 17.8.106).
- E.42. Excess emission reports and the results of inspections and audits, as required in Appendix E, shall be submitted quarterly to the Department (ARM 17.8.1212 and ARM 17.8.106).

- E.43. The owner or operator of any mercury-emitting generating unit shall report to the Department within 30 days after the end of each calendar quarter, as described in Appendix H (ARM 17.8.749):
- a. The monthly average lb/TBtu mercury emission rate, for each month of the quarter;
  - b. The 12-month rolling average lb/TBtu emission rate for each month of the reporting quarter; and
  - c. Number of operating hours that the MEMS was unavailable or not operating within quality assurance limits (monitor downtime).
- E.44. CELP shall meet the applicable reporting requirements of 40 CFR 60, Subpart Da (ARM 17.8.1212 and 40 CFR Part 60, Subpart Da).
- E.45. CELP shall meet the applicable reporting requirements of 40 CFR 63, Subpart UUUUU (ARM 17.8.1212 and 40 CFR Part 63, Subpart UUUUU).
- E.46. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- E.47. The semiannual monitoring report shall provide (ARM 17.8.1212):
- a. A summary of results of any source testing that was performed during that semiannual period;
  - b. A summary of recorded logs required within Section III.E.32;
  - c. A summary of compliance with 40 CFR Part 64 (CAM) provisions, Appendix F;
  - d. A summary of compliance with 40 CFR Part 64 (CAM) provisions, Appendix G; and,
  - e. A summary of any exceedance or deviation from a limit or requirement established within Section III.E.

**F. EU007 – Flyash Conveying and Storage; EU008 – Bedash Conveying and Storage; EU009 – Ash Storage Silo Unloading**

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
F.1, F.6, F.8, F.11, F.12, F.14, F.15, F.16	Opacity	20%	Operate and Maintain Baghouse	Ongoing	Semiannual
			Method 9	As required by the Department and Section III.A.1	Semiannual
F.2, F.3, F.6, F.9, F.11, F.12, F.14, F.15, F.16	PM <sub>10</sub>	0.004 gr/sdcf (EU007 and EU008)	Operate and Maintain Baghouses	Ongoing	Semiannual

			Method 201A	As required by the Department and Section III.A.1	Semiannual
F.4, F.6, F.7, F.9, F.11, F.12, F.14, F.15, F.16	PM <sub>10</sub>	0.01 gr/dscf (EU009)	Operate and Maintain Baghouse	Ongoing	Semiannual
			Method 201A	As required by the Department and Section III.A.1	Semiannual
F.5, F.10, F.13, F.15, F.16	Stack Heights	22 feet above the ground	Certify and Maintain	Ongoing	Annual

### Conditions

- F.1. CELP shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304).
- F.2. Flyash conveying and storage shall be controlled by a baghouse. PM<sub>10</sub> emissions from the baghouse shall not exceed 0.004 gr/dscf (ARM 17.8.752).
- F.3. Bedash conveying and storage shall be controlled by a baghouse. PM<sub>10</sub> emissions from the baghouse shall not exceed 0.004 gr/dscf (ARM 17.8.752).
- F.4. Ash storage silo unloading shall be controlled by a baghouse and covered haul trucks. PM<sub>10</sub> emissions from the baghouse shall not exceed 0.01 gr/dscf (ARM 17.8.752).
- F.5. CELP shall maintain the stacks on the flyash and bedash storage baghouse/cartridge 22 feet above the ground (ARM 17.8.749).

### Compliance Demonstration

- F.6. CELP shall operate and maintain baghouses to monitor compliance with the 20% opacity limit in Section III.F.1 and the particulate limits in Section III.F.2, III.F.3, and III.F.4 (ARM 17.8.1213).
- F.7. CELP shall ensure that covered haul trucks are used for Ash storage silo unloading to monitor compliance with Section III.F.4 (ARM 17.8.1213).
- F.8. As required by the Department and Section III.A.1, CELP shall perform a Method 9 test in accordance with the Montana Source Test Protocol and Procedures Manual to monitor compliance with Section III.F.1 (ARM 17.8.106 and ARM 17.8.1213).
- F.9. As required by the Department and Section III.A.1, CELP shall perform a Method 201A (filterable) in accordance with the Montana Source Test Protocol and Procedures Manual to monitor compliance with Section III.F.2, Section III.F.3, and Section III.F.4 (ARM 17.8.106 and ARM 17.8.1213).
- F.10. CELP shall comply with the stack height requirements for the flyash and bedash storage baghouse/cartridge specified in Section III.F.5 with initial certification of compliance and maintaining the stack heights on an ongoing basis (ARM 17.8.1213).

## Recordkeeping

- F.11. All source test recordkeeping shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
- F.12. CELP shall maintain a log of all maintenance, repair and corrective action performed on any baghouse. The log must include, but is not limited to, the date, time, and action(s) taken. The maintenance log shall be maintained as a permanent business record for at least five years following the activity. The log shall be available to the Department for inspection and must be submitted to the Department upon request (ARM 17.8.1212).
- F.13. CELP shall maintain on site a flyash and bedash storage baghouse/cartridge log documenting any stack specifications that deviate from the height specified in Section III.F.10. At a minimum, the flyash and bedash storage baghouse/cartridge log shall include the required information, the date, and the initials of the documenting personnel (ARM 17.8.1212).

## Reporting

- F.14. Any compliance source test reports must be submitted in accordance with Montana Source Test Protocol and Procedure Manual (ARM 17.8.106).
- F.15. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- F.16. The semiannual monitoring report shall provide (ARM 17.8.1212):
- A summary of any source testing that was performed during the last semiannual period;
  - A summary of recorded maintenance, repair, and corrective actions taken during the period as defined within Section III.F.12; and
  - A summary of any exceedance or deviation from a limit or requirement established within Section III.F.

## G. EU010 - Ash Truck Unloading

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
G.1, G.2, G.3, G.4, G.5, G.6, G.7	Opacity	20%	Visual Survey	Weekly	Semiannual

## Conditions

- G.1. CELP shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304).



## Compliance Demonstration

- G.2. CELP shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions for emitting units listed in this section. Under the visual survey option, once per calendar week, during daylight hours, CELP shall visually survey the emitting units listed in this section for any visible emissions. If visible emissions are observed during the visual survey, CELP must conduct a Method 9 source test. The Method 9 source test must begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, CELP shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then CELP shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve CELP of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then CELP shall perform the Method 9 source tests on the emitting units listed in this section for that reporting period.

Method 9 source tests must be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.106, 17.8.1213 and Procedures Manual).

## Recordkeeping

- G.3. All source test recordkeeping shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
- G.4. If visual surveys are performed, CELP shall maintain a log to verify that the visual surveys were performed as specified in Section III. G.2. Each log entry must include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer's initials. If any corrective action is required, the time, date, observer's initials, and any preventive or corrective action taken must be recorded in the log (ARM 17.8.1212).

## Reporting

- G.5. Any compliance source test reports must be submitted in accordance with Montana Source Test Protocol and Procedure Manual (ARM 17.8.106).
- G.6. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- G.7. The semiannual monitoring report shall provide (ARM 17.8.1212):

- a. A summary of any source testing that was performed during that semiannual period;
- b. A summary the log maintained as required in Section III.G.4; and
- c. A summary of any exceedance or deviation from a limit or requirement established within Section III.G.

**H. EU011 – Fugitive Emissions: Ash Disposal Area**

Conditions	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
H.1, H.2, H.4, H.6, H.7, H.8, H.9, H.10, H.11	Opacity	20%	Visual Survey	Weekly	Semiannual
			Use of Water Spray	As Needed	
H.3, H.5, H.8, H.10, H.11	Disposal Site Inactivity	Mitigative Measures	Determined by the Department	As Required	Annual

**Conditions**

- H.1. CELP shall not cause or authorize the production, handling transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308(1)).
- H.2. CELP shall use water spray to control fugitive emissions of particulate matter from the ash disposal area. Ash at the disposal site shall not be handled in such a manner as to create emissions in excess of 20% opacity (ARM 17.8.749 and ARM 17.8.752).
- H.3. If a portion of the ash disposal area is inactive and the Department determines it to be necessary, CELP shall provide mitigative measures, including, but not limited to, revegetation, to control wind-blown emissions from the area. The Department shall determine the necessity of the control measures above on the basis of Department observation, results of ambient air quality monitoring, complaints, or any combination of the above (ARM 17.8.749 and ARM 17.8.752).

**Compliance Demonstration**

- H.4. CELP shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions for emitting units listed in this section. Under the visual survey option, once per calendar week, during daylight hours, CELP shall visually survey the emitting units listed in this section for any visible emissions. If visible emissions are observed during the visual survey, CELP must conduct a Method 9 source test. The Method 9 source test must begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, CELP shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then CELP shall immediately conduct a subsequent visual survey (and subsequent

Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve CELP of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then CELP shall perform the Method 9 source tests on the emitting units listed in this section for that reporting period.

Method 9 source tests must be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.106, ARM 17.8.1213 and Procedures Manual).

- H.5. If any mitigative measures have been required, CELP shall verify the mitigative measures have been performed (ARM 17.8.1213).

### **Recordkeeping**

- H.6. All source test recordkeeping shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
- H.7. If visual surveys are performed, CELP shall maintain a log to verify that the visual surveys were performed as specified in Section III.H.4. Each log entry must include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer's initials. If any corrective action is required, the time, date, observer's initials, and any preventive or corrective action taken must be recorded in the log (ARM 17.8.1212).
- H.8. CELP shall maintain a log on site of any mitigative measures taken, if required (ARM 17.8.1212).

### **Reporting**

- H.9. Any compliance source test reports must be submitted in accordance with Montana Source Test Protocol and Procedure Manual (ARM 17.8.106).
- H.10. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- H.11. The semiannual monitoring report shall provide (ARM 17.8.1212):
- a. A summary of any source testing that was performed during that semiannual period;
  - b. A summary the logs maintained as required in Section III.H.7 and III.H.8; and

- c. A summary of any exceedance or deviation from a limit or requirement established within Section III.H.

**I. EU012 – Fugitive Emissions: Vehicle Traffic**

Conditions	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
I.1, I.3, I.5, I.6, I.7	Opacity	20%	Visual Survey	Weekly	Semiannual
I.2, I.4, I.8, I.9	Airborne Particulate Matter	Reasonable Precautions	Water and/or chemical suppressants	As Needed	

**Conditions**

- I.1. CELP shall not cause or authorize the production, handling transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308(1)).
- I.2. CELP shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308(2)).

**Compliance Demonstration**

- I.3. CELP shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions for emitting units listed in this section. Under the visual survey option, once per calendar week, during daylight hours, CELP shall visually survey the emitting units listed in this section for any visible emissions. If visible emissions are observed during the visual survey, CELP must conduct a Method 9 source test. The Method 9 source test must begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, CELP shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then CELP shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve CELP of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then CELP shall perform the Method 9 source tests on the emitting units listed in this section for that reporting period.

Method 9 source tests must be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of

the standard has been documented, whichever is a shorter period of time (ARM 17.8.106, ARM 17.8.1213 and Procedures Manual).

- I.4. CELP shall treat all unpaved portions of the haul roads, access roads, parking lots, or the general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the reasonable precautions limitation (ARM 17.8.1213).

**Recordkeeping**

- I.5. All source test recordkeeping shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
- I.6. If visual surveys are performed, CELP shall maintain a log to verify that the visual surveys were performed as specified in Section III.I.3. Each log entry must include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer’s initials. If any corrective action is required, the time, date, observer’s initials, and any preventive or corrective action taken must be recorded in the log (ARM 17.8.1212).

**Reporting**

- I.7. Any compliance source test reports must be submitted in accordance with Montana Source Test Protocol and Procedure Manual (ARM 17.8.106).
- I.8. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- I.9. The semiannual monitoring report shall provide (ARM 17.8.1212):
  - a. A summary of any source testing that was performed during that semiannual period;
  - b. A summary the logs maintained as required in Section III.I.6; and
  - c. A summary of any exceedance or deviation from a limit or requirement established within Section III.I.

**J. EU013 – Open Coal Storage Piles (Two)**

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
J.1, J.2, J.4, J.7, J.9, J.10, J.11	Opacity	20%	Visual Survey	Weekly	Semiannual
J.2, J.5, J.10, J.11	Particulate Matter	Reasonable Precautions	Water and/or chemical suppressants	Each Disturbance and As needed	
J.3, J.6, J.8, J.10, J.11	Capacity and Throughput	25,000 Ton and 150,000 TPY Per Pile	Log	Ongoing	

**Conditions**

- J.1. CELP shall not cause or authorize emissions to be discharged into the outdoor atmosphere from the emitting unit that exhibit opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(1)).
- J.2. CELP shall not cause or authorize the production, handling transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308(1)).
- J.3. CELP is authorized to maintain two open coal storage piles as specified (ARM 17.8.749):
  - a. Storage capacity of each open coal storage pile shall not exceed 25,000 tons each; and
  - b. Annual throughput of coal shall not exceed 150,000 tons per year per pile.

### **Compliance Demonstration**

- J.4. CELP shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions for emitting units listed in this section. Under the visual survey option, once per calendar week, during daylight hours, CELP shall visually survey the emitting units listed in this section for any visible emissions. If visible emissions are observed during the visual survey, CELP must conduct a Method 9 source test. The Method 9 source test must begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, CELP shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then CELP shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve CELP of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then CELP shall perform the Method 9 source tests on the emitting units listed in this section for that reporting period.

Method 9 source tests must be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.106, 17.8.1213 and Procedures Manual).

- J.5. The open coal storage piles shall be treated with a dust suppressant chemical to minimize with erosion during periods of inactivity to demonstrate compliance with the reasonable precautions requirement (ARM 17.8.1212).

J.6. CELP shall record the coal throughput for the open coal storage piles for the previous 12 months to demonstrate compliance with the requirements in Section III.J.3 (ARM 17.8.1213).

**Recordkeeping**

J.7. If visual surveys are performed, CELP shall maintain a log to verify that the visual surveys were performed as specified in Section III.J.4. Each log entry must include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer’s initials. If any corrective action is required, the time, date, observer’s initials, and any preventive or corrective action taken must be recorded in the log (ARM 17.8.1212).

J.8. CELP shall maintain a coal throughput log on site as required within Section III.J.6 (ARM 17.8.1212).

**Reporting**

J.9. All compliance source testing results shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

J.10. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

J.11. The semiannual compliance monitoring report shall provide a summary of any exceedance or deviation from a limit or requirement established within Section III.J (ARM 17.8.1212).

- a. A summary of any source testing that was performed during that semiannual period;
- b. A summary the log maintained as required in Sections III.J.4 and III.J.5; and
- c. A summary of any exceedance or deviation from a limit or requirement established within Section III.J.

**K. EU014 – Diesel-Fired Emergency Boiler Feed Pump; EU015 – Diesel-Fired Fire Water Supply Pump**

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
K.1, K.4, K.7, K.13, K.14	Operational Limits	500 hours	Log	Ongoing	Semiannual
K.2, K.5, K.8, K.10, K.11, K.13, K.14	40 CFR 60 Subpart III	40 CFR 60 Subpart III	40 CFR 60 Subpart III	40 CFR 60 Subpart III	
K.3, K.6, K.9, K.12, K.13, K.14	40 CFR 63 Subpart ZZZZ	40 CFR 63 Subpart ZZZZ	40 CFR 63 Subpart ZZZZ	40 CFR 63 Subpart ZZZZ	

**Conditions**

- K.1. Operation of the Diesel-Fired Emergency Boiler Feed Pump and the Diesel-Fired Fire Water Supply Pump shall each be limited to 500 hours during any rolling 12-month time period. (ARM 17.8.749).
- K.2. CELP shall comply with the applicable requirements of 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (ARM 17.8.340 and 40 CFR 60 Subpart IIII).
- K.3. CELP shall comply with the applicable requirements 40 CFR 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (ARM 17.8.342 and 40 CFR 63 Subpart ZZZZ).

### **Compliance Demonstration**

- K.4. CELP shall monitor the hours of operation during the previous 12-months to demonstrate compliance with the operational limits established in Section III.K.1 (ARM 17.8.1213).
- K.5. CELP shall demonstrate compliance with 40 CFR 60 Subpart IIII through the applicable monitoring and compliance requirements of 40 CFR 60 Subpart IIII (ARM 17.8.340 and 40 CFR 60 Subpart IIII).
- K.6. CELP shall demonstrate compliance with 40 CFR 63 Subpart ZZZZ through the applicable monitoring and compliance requirements of 40 CFR 63 Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63 Subpart ZZZZ).

### **Recordkeeping**

- K.7. CELP shall maintain ongoing records of the hours of operation for each emergency diesel-fired engine (ARM 17.8.1212).
- K.8. CELP shall comply with the applicable recordkeeping requirements of 40 CFR 60 Subpart IIII (ARM 17.8.340 and 40 CFR 60 Subpart IIII).
- K.9. CELP shall comply with the applicable recordkeeping requirements of 40 CFR 63 (ARM 17.8.342 and 40 CFR 63 Subpart ZZZZ).

### **Reporting**

- K.10. All compliance source test reports must be submitted in accordance with Montana Source Test Protocol and Procedure Manual (ARM 17.8.106 and ARM 17.8.1212).
- K.11. CELP shall comply with the applicable notification and reporting requirements of 40 CFR 60 Subpart IIII (ARM 17.8.340 and 40 CFR 63 Subpart IIII).
- K.12. CELP shall comply with the applicable notification and reporting requirements of 40 CFR 63 Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63 Subpart ZZZZ).



K.13. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

K.14. The semiannual reporting shall provide (ARM 17.8.1212):

- a. A summary of results of any source testing that was performed during that semiannual period;
- b. A summary of any exceedance or deviation from a limit or requirement established within Section III.K.

**L. EU016 – Diesel-Fired Portable Welder**

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
L.1, L.4, L.5, L.8, L.10, L.11	40 CFR 60 Subpart IIII	40 CFR 60 Subpart IIII	40 CFR 60 Subpart IIII	40 CFR 60 Subpart IIII	Semiannual
L.2, L.4, L.6, L.9, L.10, L.11	40 CFR 63 Subpart ZZZZ	40 CFR 63 Subpart ZZZZ	40 CFR 63 Subpart ZZZZ	40 CFR 63 Subpart ZZZZ	

**Conditions**

- L.1. CELP shall comply with the applicable requirements of 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (ARM 17.8.340 and 40 CFR 60 Subpart IIII).
- L.2. CELP shall comply with the applicable requirements 40 CFR 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (ARM 17.8.342 and 40 CFR 63 Subpart ZZZZ).

**Compliance Demonstration**

- L.3. CELP shall demonstrate compliance with 40 CFR 60 Subpart IIII through the applicable monitoring and compliance requirements of 40 CFR 60 Subpart IIII (ARM 17.8.340 and 40 CFR 60 Subpart IIII).
- L.4. CELP shall demonstrate compliance with 40 CFR 63 Subpart ZZZZ through the applicable monitoring and compliance requirements of 40 CFR 63 Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63 Subpart ZZZZ).

**Recordkeeping**

- L.5. CELP shall comply with the applicable recordkeeping requirements of 40 CFR 60 Subpart IIII (ARM 17.8.340 and 40 CFR 60 Subpart IIII).

- L.6. CELP shall comply with the applicable recordkeeping requirements of 40 CFR 63 (ARM 17.8.342 and 40 CFR 63 Subpart ZZZZ).

### **Reporting**

- L.7. All compliance source test reports must be submitted in accordance with Montana Source Test Protocol and Procedure Manual (ARM 17.8.106 and ARM 17.8.1212).
- L.8. CELP shall comply with the applicable notification and reporting requirements of 40 CFR 60 Subpart IIII (ARM 17.8.340 and 40 CFR 63 Subpart IIII).
- L.9. CELP shall comply with the applicable notification and reporting requirements of 40 CFR 63 Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63 Subpart ZZZZ).
- L.10. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- L.11. The semiannual reporting shall provide (ARM 17.8.1212):
  - a. A summary of results of any source testing that was performed during that semiannual period;
  - b. A summary of any exceedance or deviation from a limit or requirement established within Section III.L.

## SECTION IV. NON-APPLICABLE REQUIREMENTS

Air Quality Administrative Rules of Montana (ARM) and Federal Regulations identified as not applicable to the facility or to a specific emissions unit at the time of the permit issuance are listed below (ARM 17.8.1214). The following list does not preclude the need to comply with any new requirements that may become applicable during the permit term.

### A. Facility-Wide

The following table contains non-applicable requirements which are administrated by the Air Resources Management Bureau of the Department of Environmental Quality.

Rule Citation	Reason
40 CFR 60.18	The control devices specified by this rule are not applicable to this facility.
40 CFR 60, Subparts C, Ca, Cb, Cc, Cd 40 CFR 60, Subparts D, Db, Dc 40 CFR 60, Subparts E-J 40 CFR 60, Subparts K, Ka, Kb 40 CFR 60, Subparts L-X 40 CFR 60, Subpart Z 40 CFR 60, Subparts AA-EE 40 CFR 60, Subparts GG-HH 40 CFR 60, Subparts KK-NN 40 CFR 60, Subparts PP-XX 40 CFR 60, Subparts AAA-BBB 40 CFR 60, Subparts DDD 40 CFR 60, Subparts FFF-LLL 40 CFR 60, Subparts NNN-WWW 40 CFR 61, Subparts B-F 40 CFR 61, Subparts H-L 40 CFR 61, Subparts N-R 40 CFR 60, Subpart T 40 CFR 61, Subparts V-W 40 CFR 61, Subpart Y 40 CFR 61, Subpart BB 40 CFR 61, Subpart FF 40 CFR 63 Subparts F-I, L, M-O, Q-U, W-Y, CC-EE, GG, II-RR, EEE, JJJ 40 CFR 68 40 CFR 82 Subparts A-E, G-H	These requirements are not applicable because the facility is not an affected source as defined in these regulations.
40 CFR 72 40 CFR 73 40 CFR 75 40 CFR 76 40 CFR 77 40 CFR 78	These requirements are not applicable because the facility is not an affected source as defined by the acid rain regulations.
ARM 17.8.316 ARM 17.8.320 ARM 17.8.321 ARM 17.8.323 ARM 17.8.324 ARM 17.8.326	These rules are not applicable because the facility is not listed in the source category cited in the rule.

Rule Citation	Reason
ARM 17.8.331 ARM 17.8.332 ARM 17.8.333 ARM 17.8.334	

**B. Emission Units**

The permit application identified applicable requirements: non-applicable requirements for individual or specific emission units were not listed. The Department has listed all non-applicable requirements in Section IV.A, these requirements relate to each specific unit, as well as facility wide.

## SECTION V. GENERAL PERMIT CONDITIONS

### A. Compliance Requirements

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(a)-(c)&(e), §1206(6)(b)&(c)

1. The permittee must comply with all conditions of the permit. Any noncompliance with the terms or conditions of the permit constitutes a violation of the Montana Clean Air Act, and may result in enforcement action, permit modification, revocation and reissuance, or termination, or denial of a permit renewal application under ARM Title 17, Chapter 8, Subchapter 12.
2. 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.
3. 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 the permit. If appropriate, this factor may be considered as a mitigating factor in assessing a penalty for noncompliance with an applicable requirement if the source demonstrates that both the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations, and that such health, safety or environmental impacts were unforeseeable and could not have otherwise been avoided.
4. The permittee shall furnish to the Department, within a reasonable time set by the Department (not to be less than 15 days), any information that the Department 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 Department copies of those records that are required to be kept pursuant to the terms of the permit. This subsection does not impair or otherwise limit the right of the permittee to assert the confidentiality of the information requested by the Department, as provided in 75-2-105, MCA.
5. Any schedule of compliance for applicable requirements with which the source is not in compliance with at the time of permit issuance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it was based.
6. For applicable requirements that will become effective during the permit term, the source shall meet such requirements on a timely basis unless a more detailed plan or schedule is required by the applicable requirement or the Department.

### B. Certification Requirements

ARM 17.8, Subchapter 12, Operating Permit Program §1207 and §1213(7)(a)&(c)-(d)

1. Any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12, shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12, shall state that, based on information and belief

formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

2. Compliance certifications shall be submitted by February 15 of each year, or more frequently if otherwise specified in an applicable requirement or elsewhere in the permit. Each certification must include the required information for the previous calendar year (i.e., January 1 – December 31).
3. Compliance certifications shall include the following:
  - a. The identification of each term or condition of the permit that is the basis of the certification;
  - b. The identification of the method(s) or other means used by the owner or operator for determining the status of compliance with each term and condition during the certification period, consistent with ARM 17.8.1212;
  - c. The status of compliance with each term and condition for the period covered by the certification, *including whether compliance during the period was continuous or intermittent* (based on the method or means identified in ARM 17.8.1213(7)(c)(ii), as described above); and
  - d. Such other facts as the Department may require to determine the compliance status of the source.
4. All compliance certifications must be submitted to the Environmental Protection Agency, as well as to the Department, at the addresses listed in the Notification Addresses Appendix of this permit.

### **C. Permit Shield**

#### ARM 17.8, Subchapter 12, Operating Permit Program §1214(1)-(4)

1. The applicable requirements and non-federally enforceable requirements are included and specifically identified in this permit and the permit includes a precise summary of the requirements not applicable to the source. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements and any non-federally enforceable requirements as of the date of permit issuance.
2. The permit shield described in 1 above shall remain in effect during the appeal of any permit action (renewal, revision, reopening, or revocation and reissuance) to the Board of Environmental Review (Board), until such time as the Board renders its final decision.
3. Nothing in this permit alters or affects the following:
  - a. The provisions of Sec. 7603 of the FCAA, including the authority of the administrator under that section;
  - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

- c. The applicable requirements of the Acid Rain Program, consistent with Sec. 7651g(a) of the FCAA;
  - d. The ability of the administrator to obtain information from a source pursuant to Sec. 7414 of the FCAA;
  - e. The ability of the Department to obtain information from a source pursuant to the Montana Clean Air Act, Title 75, Chapter 2, MCA;
  - f. The emergency powers of the Department under the Montana Clean Air Act, Title 75, Chapter 2, MCA; and
  - g. The ability of the Department to establish or revise requirements for the use of Reasonably Available Control Technology (RACT) as defined in ARM Title 17, Chapter 8. However, if the inclusion of a RACT into the permit pursuant to ARM Title 17, Chapter 8, Subchapter 12, is appealed to the Board, the permit shield, as it applies to the source's existing permit, shall remain in effect until such time as the Board has rendered its final decision.
4. Nothing in this permit alters or affects the ability of the Department to take enforcement action for a violation of an applicable requirement or permit term demonstrated pursuant to ARM 17.8.106, Source Testing Protocol.
  5. Pursuant to ARM 17.8.132, for the purpose of submitting a compliance certification, nothing in these rules shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance. However, when compliance or noncompliance is demonstrated by a test or procedure provided by permit or other applicable requirements, the source shall then be presumed to be in compliance or noncompliance unless that presumption is overcome by other relevant credible evidence.
  6. The permit shield will not extend to minor permit modifications or changes not requiring a permit revision (see Sections I & J).
  7. The permit shield will extend to significant permit modifications and transfer or assignment of ownership (see Sections K & O).

**D. Monitoring, Recordkeeping, and Reporting Requirements**

ARM 17.8, Subchapter 12, Operating Permit Program §1212(2)&(3)

1. Unless otherwise provided in this permit, the permittee shall maintain compliance monitoring records that include the following information:
  - a. The date, place as defined in the permit, and time of sampling or measurement;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;

- e. The results of such analyses; and
  - f. The operating conditions at the time of sampling or measurement.
2. The permittee shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. All monitoring data, support information, and required reports and summaries may be maintained in computerized form at the plant site if the information is made available to Department personnel upon request, which may be for either hard copies or computerized format. Strip-charts must be maintained in their original form at the plant site and shall be made available to Department personnel upon request.
  3. The permittee shall submit to the Department, at the addresses located in the Notification Addresses Appendix of this permit, reports of any required monitoring by February 15 and August 15 of each year, or more frequently if otherwise specified in an applicable requirement or elsewhere in the permit. The monitoring report submitted on February 15 of each year must include the required monitoring information for the period of July 1 through December 31 of the previous year. The monitoring report submitted on August 15 of each year must include the required monitoring information for the period of January 1 through June 30 of the current year. All instances of deviations from the permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official, consistent with ARM 17.8.1207.

#### **E. Prompt Deviation Reporting**

##### ARM 17.8, Subchapter 12, Operating Permit Program §1212(3)(b)

The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. To be considered prompt, deviations shall be reported as part of the routine reporting requirements under ARM 17.8.1212(3)(b) and, if applicable, in accordance with the malfunction reporting requirements under ARM 17.8.110, unless otherwise specified in an applicable requirement.

1. For deviations which may result in emissions potentially in violation of permit limitations:
  - a. An initial phone notification (or faxed or electronic notification) describing the incident within 24 hours (or the next business day) of discovery; and,
  - b. A follow-up written, faxed, or electronic report within 30 days of discovery of the deviation that describes the probable cause of the reported deviation and any corrective actions or preventative measures taken.
2. For deviations attributable to malfunctions, deviations shall be reported to the Department in accordance with the malfunction reporting requirements under ARM 17.8.110; and



3. For all other deviations, deviations shall be reported to the Department via a written, faxed, or electronic report within 90 days of discovery (as determined through routine internal review by the permittee).

Prompt deviation reports do not need to be resubmitted with regular semiannual (or other routine) reports, but may be referenced by the date of submittal.

#### **F. Emergency Provisions**

ARM 17.8, Subchapter 12, Operating Permit Program §1201(13) and §1214(5), (6)&(8)

1. An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation and causes the source to exceed a technology-based emission limitation under this permit due to the unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of reasonable preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the permittee demonstrates through properly signed, contemporaneous logs, or other relevant evidence, that:
  - a. An emergency occurred and the permittee can identify the cause(s) of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and
  - d. The permittee submitted notice of the emergency to the Department within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirements of ARM 17.8.1212(3)(b). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
3. These emergency provisions are in addition to any emergency, malfunction or upset provision contained in any applicable requirement.

#### **G. Inspection and Entry**

ARM 17.8, Subchapter 12, Operating Permit Program §1213(3)&(4)

1. Upon presentation of credentials and other requirements as may be required by law, the permittee shall allow the Department, the administrator, or an authorized representative (including an authorized contractor acting as a representative of the Department or the administrator) to perform the following:
  - a. Enter the premises where a source required to obtain a permit is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
  - c. Inspect at reasonable times any facilities, emission units, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - d. As authorized by the Montana Clean Air Act and rules promulgated thereunder, sample or monitor, at reasonable times, any substances or parameters at any location for the purpose of assuring compliance with the permit or applicable requirements.
2. The permittee shall inform the inspector of all workplace safety rules or requirements at the time of inspection. This section shall not limit in any manner the Department's statutory right of entry and inspection as provided for in 75-2-403, MCA.

#### **H. Fee Payment**

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(f) and ARM 17.8, Subchapter 5, Air Quality Permit Application, Operation, and Open Burning Fees §505(3)-(5) (STATE ONLY)

- 1. The permittee must pay application and operating fees, pursuant to ARM Title 17, Chapter 8, Subchapter 5.
- 2. Annually, the Department shall provide the permittee with written notice of the amount of the fee and the basis for the fee assessment. The air quality operation fee is due 30 days after receipt of the notice, unless the fee assessment is appealed pursuant to ARM 17.8.511. If any portion of the fee is not appealed, that portion of the fee that is not appealed is due 30 days after receipt of the notice. Any remaining fee, which may be due after the completion of an appeal, is due immediately upon issuance of the Board's decision or upon completion of any judicial review of the Board's decision.
- 3. If the permittee fails to pay the required fee (or any required portion of an appealed fee) within 90 days of the due date of the fee, the Department may impose an additional assessment of 15% of the fee (or any required portion of an appealed fee) or \$100, whichever is greater, plus interest on the fee (or any required portion of an appealed fee), computed at the interest rate established under 15-31-510(3), MCA.

#### **I. Minor Permit Modifications**

ARM 17.8, Subchapter 12, Operating Permit Program §1226(3)&(11)

- 1. An application for a minor permit modification need only address in detail those portions of the permit application that require revision, updating, supplementation, or deletion, and may reference any required information that has been previously submitted.
- 2. The permit shield under ARM 17.8.1214 will not extend to any minor modifications processed pursuant to ARM 17.8.1226.

## **J. Changes Not Requiring Permit Revision**

### ARM 17.8, Subchapter 12, Operating Permit Program §1224(1)-(3), (5)&(6)

1. The permittee is authorized to make changes within the facility as described below, provided the following conditions are met:
  - a. The proposed changes do not require the permittee to obtain an air quality preconstruction permit under ARM Title 17, Chapter 8, Subchapter 7;
  - b. The proposed changes are not modifications under Title I of the FCAA, or as defined in ARM Title 17, Chapter 8, Subchapters 8, 9, or 10;
  - c. The emissions resulting from the proposed changes do not exceed the emissions allowable under this permit, whether expressed as a rate of emissions or in total emissions;
  - d. The proposed changes do not alter permit terms that are necessary to enforce applicable emission limitations on emission units covered by the permit; and
  - e. The facility provides the administrator and the Department with written notification at least 7 days prior to making the proposed changes.
2. The permittee and the Department shall attach each notice provided pursuant to 1.e above to their respective copies of this permit.
3. Pursuant to the conditions above, the permittee is authorized to make Section 502(b)(10) changes, as defined in ARM 17.8.1201(30), without a permit revision. For each such change, the written notification required under 1.e above shall include a description of the change within the source, 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.
4. The permittee may make a change not specifically addressed or prohibited by the permit terms and conditions without requiring a permit revision, provided the following conditions are met:
  - a. Each proposed change does not weaken the enforceability of any existing permit conditions;
  - b. The Department has not objected to such change;
  - c. Each proposed change meets all applicable requirements and does not violate any existing permit term or condition; and
  - d. The permittee provides contemporaneous written notice to the Department and the administrator of each change that is above the level for insignificant emission units as defined in ARM 17.8.1201(22) and 17.8.1206(3), and the written notice describes each such change, including the date of the change, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

5. The permit shield authorized by ARM 17.8.1214 shall not apply to changes made pursuant to ARM 17.8.1224(3) and (5), but is applicable to terms and conditions that allow for increases and decreases in emissions pursuant to ARM 17.8.1224(4).

**K. Significant Permit Modifications**

ARM 17.8, Subchapter 12, Operating Permit Program §1227(1), (3)&(4)

1. The modification procedures set forth in 2 below must be used for any application requesting a significant modification of this permit. Significant modifications include the following:
  - a. Any permit modification that does not qualify as either a minor modification or as an administrative permit amendment;
  - b. Every significant change in existing permit monitoring terms or conditions;
  - c. Every relaxation of permit reporting or recordkeeping terms or conditions that limit the Department's ability to determine compliance with any applicable rule, consistent with the requirements of the rule; or
  - d. Any other change determined by the Department to be significant.
2. Significant modifications shall meet all requirements of ARM Title 17, Chapter 8, including those for applications, public participation, and review by affected states and the administrator, as they apply to permit issuance and renewal, except that an application for a significant permit modification need only address in detail those portions of the permit application that require revision, updating, supplementation or deletion.
3. The permit shield provided for in ARM 17.8.1214 shall extend to significant modifications.

**L. Reopening for Cause**

ARM 17.8, Subchapter 12, Operating Permit Program §1228(1)&(2)

This permit may be reopened and revised under the following circumstances:

1. Additional applicable requirements under the FCAA become applicable to the facility when the permit has a remaining term of 3 or more years. Reopening and revision of the permit shall be completed not later than 18 months after promulgation of the applicable requirement. No reopening is required under ARM 17.8.1228(1)(a) if the effective date of the applicable requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms or conditions have been extended pursuant to ARM 17.8.1220(12) or 17.8.1221(2);
2. Additional requirements (including excess emission requirements) become applicable to an affected source under the Acid Rain Program. Upon approval by the administrator, excess emission offset plans shall be deemed incorporated into the permit;

3. The Department or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit; or
4. The administrator or the Department determines that the permit must be revised or revoked and reissued to ensure compliance with the applicable requirements.

#### **M. Permit Expiration and Renewal**

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(g), §1220(11)&(12), and §1205(2)(d)

1. This permit is issued for a fixed term of 5 years.
2. Renewal of this permit is subject to the same procedural requirements that apply to permit issuance, including those for application, content, public participation, and affected state and administrator review.
3. Expiration of this permit terminates the permittee's right to operate unless a timely and administratively complete renewal application has been submitted consistent with ARM 17.8.1221 and 17.8.1205(2)(d). If a timely and administratively complete application has been submitted, all terms and conditions of the permit, including the application shield, remain in effect after the permit expires until the permit renewal has been issued or denied.
4. For renewal, the permittee shall submit a complete air quality operating permit application to the Department not later than 6 months prior to the expiration of this permit, unless otherwise specified. If necessary to ensure that the terms of the existing permit will not lapse before renewal, the Department may specify, in writing to the permittee, a longer time period for submission of the renewal application. Such written notification must be provided at least 1 year before the renewal application due date established in the existing permit.

#### **N. Severability Clause**

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(i)&(l)

1. The administrative appeal or subsequent judicial review of the issuance by the Department of an initial permit under this subchapter shall not impair in any manner the underlying applicability of all applicable requirements, and such requirements continue to apply as if a final permit decision had not been reached by the Department.
2. If any provision of a permit is found to be invalid, all valid parts that are severable from the invalid part remain in effect. If a provision of a permit is invalid in one or more of its applications, the provision remains in effect in all valid applications that are severable from the invalid applications.

#### **O. Transfer or Assignment of Ownership**

ARM 17.8, Subchapter 12, Operating Permit Program §1225(2)&(4)

1. If an administrative permit amendment involves a change in ownership or operational control, the applicant must include in its request to the Department a written agreement

containing a specific date for the transfer of permit responsibility, coverage and liability between the current and new permittee.

2. The permit shield provided for in ARM17.8.1214 shall not extend to administrative permit amendments.

**P. Emissions Trading, Marketable Permits, Economic Incentives**

ARM 17.8, Subchapter 12, Operating Permit Program §1226(2)

Notwithstanding ARM 17.8.1226(1) and (7), minor air quality operating permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in the Montana State Implementation Plan or in applicable requirements promulgated by the administrator.

**Q. No Property Rights Conveyed**

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(d)

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

**R. Testing Requirements**

ARM 17.8, Subchapter 1, General Provisions §105

The permittee shall comply with ARM 17.8.105.

**S. Source Testing Protocol**

ARM 17.8, Subchapter 1, General Provisions §106

The permittee shall comply with ARM 17.8.106.

**T. Malfunctions**

ARM 17.8, Subchapter 1, General Provisions §110

The permittee shall comply with ARM 17.8.110.

**U. Circumvention**

ARM 17.8, Subchapter 1, General Provisions §111

The permittee shall comply with ARM 17.8.111.

**V. Motor Vehicles**

ARM 17.8, Subchapter 3, Emission Standards §325

The permittee shall comply with ARM 17.8.325.

**W. Annual Emissions Inventory**

ARM 17.8, Subchapter 5, Air Quality Permit Application, Operation and Open Burning Fees §505 (STATE ONLY)

The permittee shall supply the Department with annual production and other information for all emission units necessary to calculate actual or estimated actual amount of air pollutants emitted during each calendar year. Information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request, unless otherwise specified in this permit. Information shall be in the units required by the Department.

#### **X. Open Burning**

ARM 17.8, Subchapter 6, Open Burning §604, 605 and 606

The permittee shall comply with ARM 17.8.604, 605 and 606.

#### **Y. Montana Air Quality Permits**

ARM 17.8, Subchapter 7, Permit, Construction and Operation of Air Contaminant Sources §745 and 764

1. Except as specified, no person shall construct, install, modify or use any air contaminant source or stack associated with any source without first obtaining a permit from the Department or Board. A permit is not required for those sources or stacks as specified by ARM 17.8.744(1)(a)-(k).
2. The permittee shall comply with ARM 17.8.743, 744, 745, 748, and 764.
3. ARM 17.8.745(1) specifies de minimis changes as construction or changed conditions of operation at a facility holding Montana Air Quality Permit (MAQP) issued under Chapter 8 that does not increase the facility's potential to emit by more than 5 tons per year of any pollutant, except:
  - a. Any construction or changed condition that would violate any condition in the facility's existing MAQP or any applicable rule contained in Chapter 8 is prohibited, except as provided in ARM 17.8.745(2);
  - b. Any construction or changed conditions of operation that would qualify as a major modification under Subchapters 8, 9 or 10 of Chapter 8;
  - c. Any construction or changed condition of operation that would affect the plume rise or dispersion characteristic of emissions that would cause or contribute to a violation of an ambient air quality standard or ambient air increment as defined in ARM 17.8.804;
  - d. Any construction or improvement project with a potential to emit more than 5 tons per year may not be artificially split into smaller projects to avoid air quality preconstruction permitting; or
  - e. Emission reductions obtained through offsetting within a facility are not included when determining the potential emission increase from construction or changed conditions of operation, unless such reductions are made federally enforceable.
4. Any facility making a de minimis change pursuant to ARM 17.8.745(1) shall notify the Department if the change would include a change in control equipment, stack height, stack

diameter, stack gas temperature, source location or fuel specifications, or would result in an increase in source capacity above its permitted operation or the addition of a new emission unit. The notice must be submitted, in writing, 10 days prior to start up or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(1).

**Z. National Emission Standard for Asbestos**

40 CFR, Part 61, Subpart M

The permittee shall not conduct any asbestos abatement activities except in accordance with 40 CFR 61, Subpart M (National Emission Standard for Hazardous Air Pollutants for Asbestos).

**AA. Asbestos**

ARM 17.74, Subchapter 3, General Provisions and Subchapter 4, Fees

The permittee shall comply with ARM 17.74.301, *et seq.*, and ARM 17.74.401, *et seq.* (State only)

**BB. Stratospheric Ozone Protection – Servicing of Motor Vehicle Air Conditioners**

40 CFR, Part 82, Subpart B

If the permittee performs a service on motor vehicles and 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 82, Subpart B.

**CC. Stratospheric Ozone Protection – Recycling and Emission Reductions**

40 CFR, Part 82, Subpart F

The permittee shall comply with the standards for recycling and emission reductions in 40 CFR 82, Subpart F, except as provided for MVACs in Subpart B:

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156;
2. 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;
3. Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technical certification program pursuant to §82.161;
4. Persons disposing of small appliances, MVACs and MVAC-like (as defined at §82.152) appliances must comply with recordkeeping requirements pursuant to §82.166;
5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156; and



6. 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.

## **DD. Emergency Episode Plan**

The permittee shall comply with the requirements contained in Chapter 9.7 of the State of Montana Air Quality Control Implementation Plan.

Each major source emitting 100 tons per year located in a Priority I Air Quality Control Region, shall submit to the Department a legally enforceable Emergency Episode Action Plan (EEAP) that details how the source will curtail emissions during an air pollutant emergency episode. The industrial EEAP shall be in accordance with the Department's EEAP and shall be submitted according to a timetable developed by the Department, following Priority I reclassification.

## **EE. Definitions**

Terms not otherwise defined in this permit or in the Definitions and Abbreviations Appendix of this permit, shall have the meaning assigned to them in the referenced regulations.

## APPENDICES

## Appendix A INSIGNIFICANT EMISSION UNITS

**Disclaimer:** The information in this appendix is not State or Federally enforceable, but is presented to assist CELP, the permitting authority, inspectors, and the public.

Pursuant to ARM 17.8.1201(22)(a), an insignificant emission unit means any activity or emissions unit located within a source that: (i) has a potential to emit less than 5 tons per year of any regulated pollutant; (ii) has a potential to emit less than 500 pounds per year of lead; (iii) has a potential to emit less than 500 pounds per year of hazardous air pollutants listed pursuant to Sec. 7412 (b) of the FCAA; and (iv) is not regulated by an applicable requirement, other than a generally applicable requirement that applies to all emission units subject to Subchapter 12.

### List of Insignificant Activities:

The following table of insignificant sources and/or activities were provided by CELP. Because there are no requirements to update such a list, the emission units and/or activities may change from those specified in the table.

Emissions Unit ID	Description
IEU01	Fugitive Emissions: Diesel Fuel Combustion
IEU02	Diesel Fuel Oil Storage Tanks
IEU05	Propane-fired Portable Heaters

## Appendix B DEFINITIONS and ABBREVIATIONS

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

**"Administrative permit amendment"** means an air quality operating permit revision that:

- (a) Corrects typographical errors;
- (b) Identifies a change in the name, address or phone number of any person identified in the air quality operating permit, or identifies a similar minor administrative change at the source;
- (c) Requires more frequent monitoring or reporting by CELP;
- (d) Requires changes in monitoring or reporting requirements that the Department deems to be no less stringent than current monitoring or reporting requirements;
- (e) Allows for a change in ownership or operational control of a source if the Department has determined that no other change in the air quality operating permit is necessary, consistent with ARM 17.8.1225; or
- (f) Incorporates any other type of change which the Department has determined to be similar to those revisions set forth in (a)-(e), above.

**"Applicable requirement"** means all of the following as they apply to emission units in a source requiring an air quality operating permit (including requirements that have been promulgated or approved by the Department or the administrator through rule making at the time of issuance of the air quality operating permit, but have future-effective compliance dates, provided that such requirements apply to sources covered under the operating permit):

- (a) Any standard, rule, or other requirement, including any requirement contained in a consent decree or judicial or administrative order entered into or issued by the Department, that is contained in the Montana state implementation plan approved or promulgated by the administrator through rule making under Title I of the FCAA;
- (b) Any federally enforceable term, condition or other requirement of any air quality preconstruction permit issued by the Department under Subchapters 7, 8, 9 and 10 of this chapter, or pursuant to regulations approved or promulgated through rule making under Title I of the FCAA, including Parts C and D;
- (c) Any standard or other requirement under Sec. 7411 of the FCAA, including Sec. 7411(d);
- (d) Any standard or other requirement under Sec. 7412 of the FCAA, including any requirement concerning accident prevention under Sec. 7412(r)(7), but excluding the contents of any risk management plan required under Sec. 7412(r);

- (e) Any standard or other requirement of the acid rain program under Title IV of the FCAA or regulations promulgated thereunder;
- (f) Any requirements established pursuant to Sec. 7661c(b) or Sec. 7414(a)(3) of the FCAA;
- (g) Any standard or other requirement governing solid waste incineration, under Sec. 7429 of the FCAA;
- (h) Any standard or other requirement for consumer and commercial products, under Sec. 7511b(e) of the FCAA;
- (i) Any standard or other requirement for tank vessels, under Sec. 7511b(f) of the FCAA;
- (j) Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under Title VI of the FCAA, unless the administrator determines that such requirements need not be contained in an air quality operating permit;
- (k) Any national ambient air quality standard or increment or visibility requirement under Part C of Title I of the FCAA, but only as it would apply to temporary sources permitted pursuant to Sec. 7661c(e) of the FCAA; or
- (l) Any federally enforceable term or condition of any air quality open burning permit issued by the Department under Subchapter 6.

**"Department"** means the Montana Department of Environmental Quality.

**"Excess Emissions"** means any visible emissions from a stack or source, viewed during the visual surveys, that meets or exceeds 15% opacity (or 30% opacity if associated with a 40% opacity limit) during normal operating conditions.

**"Emissions unit"** means any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under Sec. 7412(b) of the FCAA. This term is not meant to alter or affect the definition of the term "unit" for purposes of Title IV of the FCAA.

**"FCAA"** means the Federal Clean Air Act, as amended.

**"Federally enforceable"** means all limitations and conditions which are enforceable by the administrator, including those requirements developed pursuant to 40 CFR Parts 60 and 61, requirements within the Montana state implementation plan, and any permit requirement established pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, including operating permits issued under an EPA approved program that is incorporated into the Montana state implementation plan and expressly requires adherence to any permit issued under such program.

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

**"General air quality operating permit" or "general permit"** means an air quality operating permit that meets the requirements of ARM 17.8.1222, covers multiple sources in a source category, and is issued in lieu of individual permits being issued to each source.

**"Hazardous air pollutant"** means any air pollutant listed as a hazardous air pollutant pursuant to Section 112(b) of the FCAA.

**"Non-federally enforceable requirement"** means the following as they apply to emission units in a source requiring an air quality operating permit:

- (a) Any standard, rule, or other requirement, including any requirement contained in a consent decree, or judicial or administrative order entered into or issued by the Department, that is not contained in the Montana state implementation plan approved or promulgated by the administrator through rule making under Title I of the FCAA;
- (b) Any term, condition or other requirement contained in any air quality preconstruction permit issued by the Department under Subchapters 7, 8, 9 and 10 of this chapter that is not federally enforceable;
- (c) Does not include any Montana ambient air quality standard contained in Subchapter 2 of this chapter.

**"Permittee"** means the owner or operator of any source subject to the permitting requirements of this subchapter, as provided in ARM 17.8.1204, that holds a valid air quality operating permit or has submitted a timely and complete permit application for issuance, renewal, amendment, or modification pursuant to this subchapter.

**"Regulated air pollutant"** means the following:

- (a) Nitrogen oxides or any volatile organic compounds;
- (b) Any pollutant for which a national ambient air quality standard has been promulgated;
- (c) Any pollutant that is subject to any standard promulgated under Sec. 7411 of the FCAA;
- (d) Any Class I or II substance subject to a standard promulgated under or established by Title VI of the FCAA; or
- (e) Any pollutant subject to a standard or other requirement established or promulgated under Sec. 7412 of the FCAA, including but not limited to the following:
  - (i) Any pollutant subject to requirements under Sec. 7412(j) of the FCAA. If the administrator fails to promulgate a standard by the date established in Sec. 7412(e) of the FCAA, 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 in Sec. 7412(e) of the FCAA;

- (ii) Any pollutant for which the requirements of Sec. 7412(g)(2) of the FCAA have been met but only with respect to the individual source subject to Sec. 7412(g)(2) requirement.

**"Responsible official"** means one of the following:

- (a) For a corporation: 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 a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
  - (i) The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
  - (ii) The delegation of authority to such representative is approved in advance by the Department.
- (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 (e.g., a regional administrator of the environmental protection agency).
- (d) For affected sources: the designated representative in so far as actions, standards, requirements, or prohibitions under Title IV of the FCAA or the regulations promulgated thereunder are concerned, and the designated representative for any other purposes under this subchapter.



## Abbreviations:

ARM	Administrative Rules of Montana
ASTM	American Society of Testing Materials
BACT	Best Available Control Technology
BTU	British Thermal Unit
CAM	Compliance Assurance Monitoring
CEM	Continuous Emission Monitor
CERM	Continuous Emission Rate Monitor
CFB	Circulating Fluidized Bed
CFR	Code of Federal Regulations
CO	carbon monoxide
COM	Continuous Opacity Monitor
DEQ	Department of Environmental Quality
dscf	dry standard cubic foot
dscfm	dry standard cubic foot per minute
EEAP	Emergency Episode Action Plan
EPA	U.S. Environmental Protection Agency
EPA Method	Test methods contained in 40 CFR 60, Appendix A
EU	emissions unit
FCAA	Federal Clean Air Act
gr	grains
HAP	hazardous air pollutant
IEU	insignificant emissions unit
Method 3	40 CFR 60, Appendix A, Method 3
Method 5	40 CFR 60, Appendix A, Method 5
Method 6	40 CFR 60, Appendix A, Method 6
Method 7	40 CFR 60, Appendix A, Method 7
Method 9	40 CFR 60, Appendix A, Method 9
Method 10	40 CFR 60, Appendix A, Method 10
MMBtu	million British Thermal Units
NO <sub>x</sub>	oxides of nitrogen
NO <sub>2</sub>	nitrogen dioxide
O <sub>2</sub>	oxygen
Pb	lead
PM	particulate matter
PM10	particulate matter less than 10 microns in size
psi	pounds per square inch
scf	standard cubic feet
SIC	Source Industrial Classification
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	oxides of sulfur
tpy	tons per year
TBtu	Trillion British Thermal Units
U.S.C.	United States Code
VE	visible emissions
VOC	volatile organic compound

## Appendix C NOTIFICATION ADDRESSES

### Compliance Notifications:

Montana Department of Environmental Quality  
Permitting and Compliance Division  
Air Resources Management Bureau  
P.O. Box 200901  
Helena, MT 59620-0901

United States EPA  
Air Program Coordinator  
Region VIII, Montana Office  
10 W. 15<sup>th</sup> Street, Suite 3200  
Helena, MT 59626

### Permit Modifications:

Montana Department of Environmental Quality  
Permitting and Compliance Division  
Air Resources Management Bureau  
P.O. Box 200901  
Helena, MT 59620-0901

Office of Partnerships and Regulatory Assistance  
Air and Radiation Program  
US EPA Region VIII 8P-AR  
1595 Wynkoop Street  
Denver, CO 80202-1129

## Appendix D AIR QUALITY INSPECTOR INFORMATION

**Disclaimer:** The information in this appendix is not State or Federally enforceable, but is presented to assist CELP, permitting authority, inspectors, and the public.

**1. Direction to Plant:** Located approximately 6 miles north of Colstrip, Montana on Highway 39, 18 Snider Subdivision Road.

**2. Safety Equipment Required:**

The safety information listed below was contained in a document titled Plant Operating Procedures: Basis Safety Rules dated September 4, 1991 that was provided by CELP on September 25, 1996. Only safety information determined by the Department to be pertinent to State and/or federal air quality inspectors is contained in this appendix.

1. Smoking is prohibited except in designated areas.
2. Aisles and walkways shall be kept clear at all times.
3. Climbing through machinery and equipment as a short-cut is prohibited.
4. "Horseplay" shall not be tolerated in the plant.
5. Long sleeve shirts shall be worn plant-wide except for the main office and parking lot.
6. Loose or torn clothing, long hair, rings, or pendant jewelry shall not be worn around moving machinery.
7. Thin-soled, badly worn, open-toed, or tennis shoes shall not be worn in the plant. Sturdy leather or safety boots are recommended.
8. Safety glasses and hard hats are required except in office spaces, the control room, inside vehicles, shop buildings, and to and from the parking lot area.
9. Appropriate eye and ear protection shall be worn as required.
10. Respirators and dust masks shall be worn as required.
11. Doors and barriers protecting live electrical equipment and switches shall not be opened except by authorized personnel and shall not be left open without proper safety barriers.
12. Climbing on boxes, equipment, or structures not designated as a work area or means of access is prohibited.
13. Safety belts or other adequate protection as required shall be used for work in elevated positions.

14. Bins, empty tanks, or sealed spaces shall not be entered without adequate air supply, ventilation, and proper training in Confined Space Entry.
  15. A speed limit of 15 MPH is in force on the plant property at all times except in congested areas where the limit is reduced to 10 MPH.
- 3. Facility Plot Plan:** The facility plot plan was submitted as part of the application submitted on June 8, 1995.

## Appendix E Continuous Emission Monitoring Systems (CEMS)

The following monitors shall be installed and operated on the boiler stack outlet: SO<sub>2</sub>, NO<sub>x</sub>, opacity, CO, and O<sub>2</sub> or CO<sub>2</sub>. Said monitors shall comply with the applicable provisions of 40 CFR 60, Subpart Da 60.47a; Subpart A, 60.7; Appendix B, Specifications 1, 2, 3 and 4; and Appendix F. The monitors shall also conform to, but not be limited to, the following:

### 1. Continuous Opacity Monitoring System (COMS)

- a. CELP shall install, calibrate, maintain, and operate COMS to monitor and record the opacity of the gases discharged into the atmosphere from the boiler.
  - (1) The span of these systems shall be set at 100% opacity.
  - (2) The COMS shall conform to all requirements of 40 CFR Part 60, Appendix B, Performance Specification 1 - Specifications and Test Procedures for Opacity Continuous Emission Monitoring Systems in Stationary Sources (PS1).
  - (3) The COMS data will be used to demonstrate compliance with the 20% opacity limitation in Section III.E.1. CELP shall maintain compliance with the 20% opacity limitation, as demonstrated by the COMS.
- b. CELP shall submit a written report of all excess opacity emissions quarterly. Periods of excess emissions shall be defined as those averaged over a six-minute period for which the average is greater than 20% opacity. The report shall be in the format contained in Attachment 1 and include, as a minimum, the following:
  - (1) The magnitude of excess emissions and the date and time of commencement and completion of each time period of excess emissions.
  - (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
  - (3) The date and time identifying each period during which the COMS was inoperative except for zero and span checks. The nature of the system repairs or adjustments must also be reported.
  - (4) When no excess emissions have occurred or the COMS have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

- (5) The percentage of time the COMS was operating shall be calculated as:

$$\left(1 - \frac{\text{hours of COMS downtime during reporting period}^*}{\text{hours the source operated during reporting period}}\right) \times 100$$

\* All time required for calibration and to perform preventative maintenance must be included in COMS downtime.

This shall be reported as percent monitor availability during plant operation. CELP shall maintain a minimum of 95% monitor availability during plant operation on a quarterly basis.

Nothing in this section shall preclude enforcement action for data availability that is less than 100% but equal to or greater than 95% if the conditions in Appendix E Section 5 are not satisfied.

- (6) The percentage of time the COMS indicated compliance. This shall be calculated as:

$$\left(1 - \frac{\text{total hours of excess emissions during reporting period}}{\text{total hours of COMS availability during reporting period}}\right) \times 100$$

This shall be reported as percent compliance. CELP shall maintain compliance with the 20% limitation, as demonstrated by the COMS in accordance with Section III.E.1.

- (7) The excess emission reports shall be submitted within 30 days following the end of the reporting period (January-March, April-June, July-September, and October-December).

- c. CELP shall inspect and audit the COMS quarterly, using neutral density filters. CELP shall conduct these audits using the appropriate procedures and forms in the EPA Technical Assistance Document: Performance Audit Procedures for Opacity Monitors (EPA-600/8-87-025, April 1987). The results of these inspections and audits shall be included in the quarterly excess emission report.
- d. CELP shall maintain a file of all measurements from the COMS performance testing measurements; all COMS performance evaluations; all COMS or monitoring device calibration checks and audits; adjustments and maintenance performed on these systems or devices recorded in a permanent form suitable for inspection. The file shall be retained on site for at least five years following the date of such measurements and reports. CELP shall supply these records to the Department upon request.

2. Continuous Emission Monitoring System (CEMS) - SO<sub>2</sub>

- a. CELP shall install, calibrate, maintain, and operate CEMS to monitor and record the sulfur dioxide (SO<sub>2</sub>) concentrations of the gases discharged into the atmosphere from the boiler.
- (1) The span of this system shall be set as required in 40 CFR 60.47a.
  - (2) The CEMS shall conform to all requirements of 40 CFR Part 60 Subpart Da - Standards of Performance for Electric Utility Steam Generation Units; Appendix B, Performance Specification 2 - Specifications and Test Procedures for SO<sub>2</sub> and NO<sub>x</sub> Continuous Emission Monitoring Systems in Stationary Sources (PS2); and Appendix F, Quality Assurance Procedures.
  - (3) The CEMS data will be used to demonstrate compliance with the limitations contained in Section III.E.2 and 40 CFR 60, Subpart Da, as applicable. CELP shall maintain compliance with the limitations, as demonstrated by the CEMS.
- b. CELP shall submit a written report of all excess emissions quarterly. Periods of excess emissions shall be defined as those emissions calculated on an hourly, 3-hour, calendar day, annual and rolling 30-day basis which are greater than the limitations. The report shall be in the format contained in Attachment 1 and including, as a minimum, the following:
- (1) The magnitude of excess emissions and the date and time of commencement and completion of each time period of excess emissions.
  - (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
  - (3) The date and time identifying each period during which the CEMS was inoperative except for zero and span checks. The nature of the system repairs or adjustments must also be reported.
  - (4) When no excess emissions have occurred or the CEMS have not been inoperative, repaired, or adjusted, such information shall be stated in the report.
  - (5) The percentage of time the CEMS was operating. This shall be calculated as:

$$\left(1 - \frac{\text{hours of CEMS downtime during reporting period}^*}{\text{hours the source operated during reporting period}}\right) \times 100$$

\* All time required for calibration and to perform preventative maintenance must be included in CEMS downtime.

This shall be reported as percent monitor availability during plant operation. CELP shall maintain a minimum of 95% monitor availability during plant operation on a quarterly basis.

Nothing in this section shall preclude enforcement action for data availability that is less than 100%, but equal to or greater than 95% if the conditions in Appendix E Section 5 are not satisfied.

- (6) The percentage of time the CEMS indicated compliance. This shall be calculated as:

$$\left(1 - \frac{\text{total hours of excess emissions during reporting period}}{\text{total hours of CEMS availability during reporting period}}\right) \times 100$$

This shall be reported as percent compliance. CELP shall maintain compliance with the limitations, as demonstrated by the CEMS.

- (7) The excess emission reports shall be submitted within 30 days following the end of the reporting period (January-March, April-June, July-September, and October-December).
- c. CELP shall inspect and audit the CEMS quarterly to meet the requirement contain in 40 CFR Part 60 Appendix F. CELP shall conduct these audits using the appropriate procedures. The results of these inspections and audits shall be included in the quarterly excess emission report.
- d. CELP shall maintain a file of all measurements from the CEMS and performance testing measurements; all CEMS performance evaluations; all CEMS or monitoring device calibration checks and audits; adjustments and maintenance performed on these systems or devices recorded in a permanent form suitable for inspection. The file shall be retained on site for at least five years following the date of such measurements and reports. CELP shall supply these records to the Department upon request.

3. Continuous Emission Monitoring System (CEMS) – NO<sub>x</sub>

- a. CELP shall install, calibrate, maintain, and operate continuous emissions monitoring systems (CEMS) to monitor and record the nitrogen oxide (NO<sub>x</sub>) concentrations of the gases discharged into the atmosphere from the boiler.
- (1) The span of this system shall be set at 1,000 ppm.
- (2) The CEMS shall conform to all requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 - Specifications and Test Procedures for SO<sub>2</sub> and NO<sub>x</sub> Continuous Emission Monitoring Systems in Stationary Sources (PS<sub>2</sub>) and Appendix F, Quality Assurance Procedures.
- (3) The CEMS data will be used to demonstrate compliance with the limitations contained in Section III.E.2. CELP shall maintain compliance with the limitations, as demonstrated by the CEMS.



b. CELP shall submit a written report of all excess emissions quarterly. Periods of excess emissions shall be defined as those emissions calculated on an hourly, calendar day, and annual basis which are greater than the limitations. The report shall be in the format contained in Attachment 1 and including, as a minimum, the following:

- (1) The magnitude of excess emissions and the date and time of commencement and completion of each time period of excess emissions.
- (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
- (3) The date and time identifying each period during which the CEMS was inoperative except for zero and span checks. The nature of the system repairs or adjustments must also be reported.
- (4) When no excess emissions have occurred or the CEMS have not been inoperative, repaired, or adjusted, such information shall be stated in the report.
- (5) The percentage of time the CEMS was operating. This shall be calculated as:

$$\left(1 - \frac{\text{hours of CEMS downtime during reporting period}^*}{\text{hours the source operated during reporting period}}\right) \times 100$$

\* All time required for calibration and to perform preventative maintenance must be included in CEMS downtime.

This shall be reported as percent monitor availability during plant operation. CELP shall maintain a minimum of 95% monitor availability during plant operation on a quarterly basis.

Nothing in this section shall preclude enforcement action for data availability that is less than 100% but equal to or greater than 95% if the conditions in Appendix E Section 5 are not satisfied.

- (6) The percentage of time the CEMS indicated compliance. This shall be calculated as:

$$\left(1 - \frac{\text{total hours of excess emissions during reporting period}}{\text{total hours of CEMS availability during reporting period}}\right) \times 100$$

This shall be reported as percent compliance. CELP shall maintain compliance with the limitations, as demonstrated by the CEMS.

- (7) The excess emission reports shall be submitted within 30 days following the end of the reporting period (January-March, April-June, July-September, and October-December).
      - c. CELP shall inspect and audit the CEMS quarterly using Certified Gas Audits or Relative Accuracy Audits (RAA). CELP shall conduct these audits using the appropriate procedures. The results of these inspections and audits shall be included in the quarterly excess emission report.
      - d. CELP shall maintain a file of all measurements from the CEMS and performance testing measurements; all CEMS performance evaluations; all CEMS or monitoring device calibration checks and audits; adjustments and maintenance performed on these systems or devices recorded in a permanent form suitable for inspection. The file shall be retained on site for at least five years following the date of such measurements and reports. CELP shall supply these records to the Department upon request.
4. Continuous Emission Monitoring System (CEMS) - CO and O<sub>2</sub> or CO<sub>2</sub>
  - a. CELP shall install, calibrate, maintain, and operate CEMS to monitor and record CO and O<sub>2</sub> or CO<sub>2</sub> of the gases discharged into the atmosphere from the boiler.
    - (1) The CEMS shall conform to all requirements of 40 CFR Part 60 Subpart Da - Standards of Performance for Electric Utility Steam Generation Units; Appendix B, Performance Specification 3 - Specifications and Test Procedures for O<sub>2</sub> and CO<sub>2</sub> Continuous Emission Monitoring Systems in Stationary Sources (PS3) and Performance Specification 4 - Specifications and Test Procedures for CO Continuous Emission Monitoring Systems in Stationary Sources (PS4); and Appendix F, Quality Assurance Procedures.
    - (2) The CEMS shall conform to all requirements of 40 CFR 60.47a.
5. In addition to complying with the minimum quarterly data recovery rates specified in Appendix E, CELP shall undertake its best efforts to strive for and achieve the highest average quarterly data recovery rate which is practical. The determination of what is practical and, therefore, acceptable data loss shall be made consistent with Appendix E Section 6.
6. In regards to quarterly data recovery rate requirements specified in Appendix E, the determination of what is practical and, therefore, acceptable data loss shall consider whether:
  - a. CELP has properly operated and maintained the continuous emission monitors and associated data acquisition systems, including the performance of preventative maintenance, the maintenance of the spare parts inventory and the conduct of the quality assurance requirements.
  - b. CELP has taken immediate and appropriate action to correct a malfunction in the continuous emission monitors and associated data acquisitions systems.

ATTACHMENT 1  
INSTRUCTIONS FOR COMPLETING EXCESS EMISSIONS  
AND MONITORING SYSTEMS REPORTS (EER)

PART 1. Complete as shown.

PART 2. Complete as shown. Report total time the point source operated during the reporting period in hours. The determination of point source operating time includes time during unit startup, shutdown, malfunctions, or whenever pollutants (of any magnitude) are generated, regardless of unit condition or operating load.

Percent of time CEMS was available during point source operation is to be determined as:

$$\left(1 - \frac{\text{hours of CEMS downtime during reporting period}^*}{\text{hours the source operated during reporting period}}\right) \times 100$$

\* All time required for calibration and to perform preventative maintenance must be included in CEMS downtime.

Excess emissions include all time periods when emissions as measured by the CEMS exceed any applicable emission standard for any applicable time period.

Percent of time in compliance is to be determined as:

$$\left(1 - \frac{\text{total hours of excess emissions during reporting period}}{\text{total hours of CEMS availability during reporting period}}\right) \times 100$$

PART 3. Complete a separate sheet for each pollutant control device associated with a CEMS. Be specific when identifying control equipment operating parameters. For example: primary and secondary amps and spark rate for ESPs; pressure drop and effluent temperature for baghouses; and liquid flow rate and pH levels for scrubbers. For the initial EER, include a diagram or schematic for each piece of control equipment.

Table I – Use Table I as a guideline to report all excess emissions. Complete a separate sheet for each CEMS. Sequential numbering of each excess emission is recommended. For each excess emission, indicate: 1) time, duration and magnitude, 2) nature and cause, and 3) the action taken to correct the condition of excess emissions. Do not use computer reason codes for corrective actions or nature and cause, rather, be specific in the explanation. If no excess emissions occur during the reporting period, it must be stated so.

Table II – Use Table II as a guideline to report all CEMS upsets or malfunctions. Complete a separate sheet for each CEMS. List the time, duration, nature and extent of problems, as well as the action taken to return the CEMS to proper operation. Do not use reason codes for nature, extent or corrective actions. Include normal calibrations and maintenance as prescribed by the CEMS manufacturer. Do not include zero and span checks.

Table III – Complete a separate sheet for each pollutant control device associated with a CEMS. Use Table III as a guideline to report operating status of control equipment during the excess emission. Follow the number sequence as recommended for excess emissions reporting. Report operating parameters consistent with Part 3, Subpart F.

EXCESS EMISSIONS AND MONITORING SYSTEMS REPORT

PART 1

- a. Emission Reporting Period: \_\_\_\_\_
- b. Report Date: \_\_\_\_\_
- c. Person Completing Report: \_\_\_\_\_
- d. Plant Name: \_\_\_\_\_
- e. Plant Location: \_\_\_\_\_
- f. Person Responsible for Review and Integrity of Report: \_\_\_\_\_
- g. Mailing Address for 1.f. \_\_\_\_\_

*Street Address or P.O. Box*

\_\_\_\_\_  
*City*

*State*

*Zip Code*

- h. Phone Number of 1.f.: \_\_\_\_\_
- i. Certification for Report Integrity, by person in 1.f.

THIS IS TO CERTIFY THAT THE INFORMATION PROVIDED IN THIS REPORT  
IS COMPLETE AND ACCURATE.

SIGNATURE: \_\_\_\_\_

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

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

- j. Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PART 2 - CEMS Information: Complete for each CEMS.

a. Point Source: \_\_\_\_\_

b. CEMS Type (circle one)

Opacity    SO<sub>2</sub>    NO<sub>x</sub>    O<sub>2</sub>    CO    CO<sub>2</sub>    TRS

c. Manufacturer: \_\_\_\_\_

d. Model No. \_\_\_\_\_ e. Serial No.: \_\_\_\_\_

e. Automatic Calibration Value: Zero \_\_\_\_\_ Span \_\_\_\_\_

f. Date of Last CEMS Performance Test: \_\_\_\_\_

g. Total Time Point Source Operated During Reporting Period: \_\_\_\_\_

h. Percent of Time CEMS Was Available During Point Source Operation: \_\_\_\_\_

Show calculations: \_\_\_\_\_

\_\_\_\_\_

i. Allowable Emission Rate: \_\_\_\_\_

j. Percent of Time in Compliance: \_\_\_\_\_

Show calculations - \_\_\_\_\_

\_\_\_\_\_

k. CEMS Repairs or Replaced Components Which Affected or Altered Calibration Values:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PART 3 - Pollution Control Equipment Operating Parameter Monitor. (Complete one sheet for each pollutant control device associated with a CEMS.)

a. Point source: \_\_\_\_\_

b. Pollutant (circle one):

Opacity      Particulate      SO<sub>2</sub>      NO<sub>x</sub>      TRS

c. Type of Control Equipment: \_\_\_\_\_

d. Control Equipment Description and Identification (Model # and Serial #):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

e. Control Equipment Operating Parameters (i.e., pressure drop [ $\Delta P$ ],

effluent temperature, scrubber water flow rate and pH levels, primary

and secondary amps, spark rate): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

f. Date of Control Equipment Performance Test: \_\_\_\_\_

g. Control Equipment Operating Parameter During Performance Test: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

h. Type and Amount of Material Produced or Processed During the Reporting

Period: \_\_\_\_\_

i. Type and Amount of Fuel Used During the Reporting Period: \_\_\_\_\_

\_\_\_\_\_

TABLE I  
EXCESS EMISSIONS<sup>1</sup>

<u>Date</u>	<u>Time</u>		<u>Duration</u>	<u>Cause</u>	<u>Magnitude</u>	<u>Explanation/ Corrective Action</u>
	<u>From</u>	<u>To</u>				

---

<sup>1</sup>This should include the following:

1. Duration of excess emission in reporting period due to:
  - a. Startup/shutdown.
  - b. Control equipment problems.
  - c. Process problems.
  - d. Other known causes.
  - e. Unknown causes.
2. Total duration of excess emissions.
3.  $\frac{\text{Total duration of excess emissions} \times (100)}{\text{Total Source Operating Time}}$



TABLE II

CONTINUOUS MONITORING SYSTEM OPERATION FAILURES<sup>2</sup>

<u>Date</u>	<u>From</u>	<u>Time To</u>	<u>Duration</u>	<u>Cause</u>	<u>Problem/</u> <u>Corrective Action</u>
-------------	-------------	----------------	-----------------	--------------	---

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<sup>2</sup>This shall include the following:

1. CMS downtime in reporting period due to:
  - a. Monitor equipment malfunctions.
  - b. Non-Monitor equipment malfunctions.
  - c. Quality assurance calibrations.
  - d. Other known causes.
  - e. Unknown causes.
2. Total CMS Downtime.
3.  $\frac{\text{Total CMS downtime} \times 100}{\text{Total source operating time}}$

TABLE III

CONTROL EQUIPMENT OPERATION DURING EXCESS EMISSIONS

<u>Date</u>	<u>From</u>	<u>Time To</u>	<u>Duration</u>	<u>Operating Parameters</u>	<u>Corrective Action</u>
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**APPENDIX F CAM PLAN – CIRCULATING FLUIDIZED BED BOILER, PM<sub>10</sub> CONTROL**

<b>Monitoring Approach</b>	
I. Indicator	Baghouse exit stream opacity and baghouse differential pressure.
II. Measurement Approach	A Continuous Opacity Monitoring System (COMS) on the baghouse exit stream includes 1-hour average opacity readings which are recorded by the data acquisition system (DAS). In addition, the difference between the outlet pressures on the baghouse is monitored continuously on a paperless stripchart. Operators log the pressure differential hourly.
III. Indicator Value	An opacity spike greater than 10 percent for longer than one hour duration triggers baghouse inspection, which may include a dye check to identify the damaged bag and bag replacement.
IV. Performance Criteria	The minimum accuracy of the pressure differential is 0.19 inches water pressure.
A. Data Representativeness	Alarms on both opacity and pressure differential, the chart and local pressure gauges providing instantaneous readings.
B. Verification of Operational Status	The opacity meter is calibrated daily and drift tests are conducted quarterly.
C. QA/QC Practices and Criteria	Opacity is continuously monitored and recorded by the DAS. Pressure differential is also monitored continuously on a paperless stripchart; additionally, readings are logged each hour. Data are stored in the plant archive for five years.
D. Monitoring Frequency	A COMS measures opacity continuously and the DAS records 6-minute averages. A stripchart records differential pressure continuously and operators log the values hourly.
E. Data Collection Procedures	Opacity – 1-hour averages. Differential pressure – daily.
F. Averaging period	

Although the complete hard copy of Appendix F is not included in the permit, the contents of Appendix F, CELP's CAM plan remain as applicable requirements as stated in the Title V Operating Permit #OP2035-03. To receive a hard copy of this appendix, please contact one of the following:

The Department of Environmental Quality  
 Air Quality Bureau  
 1520 E. Sixth Ave.  
 P.O. Box 200901  
 Helena, Montana 59620-0901  
 Bureau Phone (406) 444-3490

OR

Colstrip Energy Limited Partnership  
 1087 W. River St., Suite 200  
 Boise, ID 83702  
 Phone (208) 344-3570

**APPENDIX G CAM PLAN – CIRCULATING FLUIDIZED BED BOILER, SULFUR DIOXIDE CONTROL**

<b>Monitoring Approach</b>	
I. Indicator	Exit stream SO <sub>2</sub> concentration
II. Measurement Approach	A CEMS on the boiler exit stream includes continuous SO <sub>2</sub> concentration readings which are used to control the amount of limestone added.
III. Indicator Value	The exit stream concentration is maintained at 0.59 lbs SO <sub>2</sub> /MMBtu heat input.
IV. Performance Criteria	
A. Data Representativeness	Same measurement as used to meet emission limits.
B. Verification of Operational Status	CEMS data.
C. QA/QC Practices and Criteria	Daily calibration drift check of CEMS and quarterly cylinder gas audit.
D. Monitoring Frequency	Continuous.
E. Data Collection Procedures	CEMS automatically records exit stream concentrations.
F. Averaging period	1 hour.

Although the complete hard copy of Appendix G is not included in the permit, the contents of Appendix G, CELP's CAM plan remain as applicable requirements as stated in the Title V Operating Permit #OP2035-03. To receive a hard copy of this appendix, please contact one of the following:

The Department of Environmental Quality  
 Permitting and Compliance Division  
 Air Resources Management Bureau  
 1520 E. Sixth Ave.  
 P.O. Box 200901  
 Helena, Montana 59620-0901  
 Bureau Phone (406) 444-3490

OR

Colstrip Energy Limited Partnership  
 1087 W. River St., Suite 200  
 Boise, ID 83702  
 Phone (208) 344-3570

## APPENDIX H MEMS

### MEMS

- a. CELP shall install, calibrate, certify, maintain, and operate an MEMS to monitor and record the rate of mercury emissions discharged into the atmosphere from all mercury emitting generating units (units) as defined in ARM 17.8.740.
  - (1) The MEMS shall be comprised of equipment as required in 40 CFR 75.81(a) and defined in 40 CFR 72.2.
  - (2) The MEMS shall conform to all applicable requirements of 40 CFR Part 75.
  - (3) The MEMS data will be used to demonstrate compliance with the emission limitations contained in Section II.E.8.
- b. CELP shall prepare, maintain and submit a written MEMS Monitoring Plan to the Department.
  - (1) The monitoring plan shall contain sufficient information on the MEMS and the use of data derived from these systems to demonstrate that all the gaseous mercury stack emissions from each unit are monitored and reported.
  - (2) Whenever CELP makes a replacement, modification, or change in a MEMS or alternative monitoring system under 40 CFR 75 subpart E, including a change in the automated data acquisition and handling system (DAHS) or in the flue gas handling system, that affects information reported in the monitoring plan (e.g. a change to a serial number for a component of a monitoring system), then the owner or operator shall update the monitoring plan.
  - (3) If any monitoring plan information requires an update pursuant to Section b.(2), submission of the written monitoring plan update shall be completed prior to or concurrent with the submittal of the quarterly report required in c. below for the quarter in which the update is required.
  - (4) The initial submission of the Monitoring Plan to the Department shall include a copy of a written Quality Assurance/Quality Control (QA/QC) Plan as detailed in 40 CFR 75 Appendix B, Section 1. Subsequently, the QA/QC Plan need only be submitted to the Department when it is substantially revised. Substantial revisions can include items such as changes in QA/QC processes resulting from rule changes, modifications in the frequency or timing of QA/QC procedures, or the addition/deletion of equipment or procedures.
  - (5) The Monitoring Plan shall include, at a minimum, the following information:
    - (a) Facility summary including:
      - (i) A description of each mercury emitting generating unit at the facility.

- (ii) Maximum and average loads (in megawatts (MW)) with fuels combusted and fuel flow rates at the maximum and average loads for each unit.
    - (iii) A description of each unit's air pollution control equipment and a description of the physical characteristics of each unit's stack.
  - (b) Mercury emission control summary including a description of control strategies, equipment, and design process rates.
  - (c) MEMS description, including:
    - (i) Identification and description of each monitoring component in the MEMS including manufacturer and model identifications; monitoring method descriptions; and normal operating scale and units descriptions. Descriptions of stack flow, diluent gas, and moisture monitors (if used) in the system must be described in addition to the mercury monitor or monitors.
    - (ii) A description of the normal operating process for each monitor including a description of all QA/QC checks.
    - (iii) A description of the methods that will be employed to verify and maintain the accuracy and precision of the MEMS calibration equipment.
    - (iv) Identification and description of the DAHS, including major hardware and software components, conversion formulas, constants, factors, averaging processes, and missing data substitution procedures.
    - (v) A description of all initial certification and ongoing recertification tests and frequencies; as well as all accuracy auditing tests and frequencies.
  - (d) The Maximum Potential Concentration (MPC), Maximum Expected Concentration (MEC), span value, and range value as applicable and as defined in 40 CFR 75 Appendix A, 2.1.7.
  - (e) Examples of all data reports required in c. below.
- c. CELP shall submit written, Quarterly Mercury Monitoring Reports. The reports shall be received by the Department within 30 days following the end of each calendar quarter, and shall include, at a minimum, the following:
  - (1) Mercury emissions. The reports shall include:
    - (a) The monthly average lb/TBtu mercury emission rate for each month of the quarter;
    - (b) The 12-month rolling average lb/TBtu emission rate for each month of the reporting quarter. The rolling 12-month basis is an average of the last 12 individual calendar monthly averages, with each monthly average calculated at the end of each calendar month; and

- (c) The total heat input to the boiler (in TBtu) for each 12-month rolling period of the quarter.
- (2) Mercury excess emissions. The report shall describe the magnitude of excess mercury emissions experienced during the quarter, including:
- (a) The date and time of commencement and completion of each period of excess emissions. Periods of excess emissions shall be defined as those emissions calculated on a rolling 12-month basis, which are greater than the limitation established in II.E.8.
  - (b) The nature and cause of each period of excess emissions and the corrective action taken or preventative measures adopted in response.
  - (c) If no periods of excess mercury emissions were experienced during the quarter, the report shall state that information.
- (3) MEMS performance. The report shall describe:
- (a) The number of operating hours that the MEMS was unavailable or not operating within quality assurance limits (monitor downtime) during the reporting quarter, broken down by the following categories:
    - Monitor equipment malfunctions;
    - Non-Monitor equipment malfunctions;
    - Quality assurance calibration;
    - Other known causes; and
    - Unknown causes.
  - (b) The percentage of unit operating time that the MEMS was unavailable or not operating within quality assurance limits (monitor downtime) during the reporting quarter. The percentage of monitor downtime in each calendar quarter shall be calculated according to the following formula:

$$MEMSDowntime\% = \left( \frac{MEMSDownHours}{OpHours} \right) \times 100 \quad \text{where}$$

MEMSDowntime% = Percentage of unit operating hours classified as MEMS monitor downtime during the reporting quarter.

MEMSDownHours = Total number of hours of MEMS monitor downtime during the reporting quarter.

OpHours = Total number of hours the unit operated during the reporting quarter.

- (c) For any reporting quarter in which monitor downtime exceeds 10%, a description of each time period during which the MEMS was inoperative or operating in a manner defined in 40 CFR Part 75 as “out of control.” Each description must include the date, start and end times, total downtime (in hours), the reason for the system downtime, and any necessary corrective actions that were taken. In addition, the report shall describe the values used for any periods when missing data substitution was necessary as detailed in 40 CFR 75.30, *et seq.*
  - (4) The quarterly report shall include the results of any QA/QC audits, checks, or tests conducted to satisfy the requirements of 40 CFR Part 75 Appendices A, B or K.
  - (5) Compliance certification. Each quarterly report shall contain a certification statement signed by the facility’s responsible official based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall indicate:
    - (a) Whether the monitoring data submitted were recorded in accordance with the applicable requirements of 40 CFR Part 75 including the QA/QC procedures and specifications of that part and its appendices, and any such requirements, procedures and specifications of an applicable excepted or approved alternative monitoring method as represented in the approved Monitoring Plan.
    - (b) That for all hours where data are substituted in accordance with 40 CFR 75.38, the add-on mercury emission controls were operating within the range of parameters listed in the quality-assurance plan for the unit, and that the substitute values do not systematically underestimate mercury emissions.
  - (6) The format of each component of the quarterly report may be negotiated with the Department’s representative to accommodate the capabilities and formats of the facility’s DAHS.
  - (7) Each quarterly report must be received by the Department within 30 days following the end of each calendar reporting period (January-March, April-June, July-September, and October-December).
  - (8) The electronic data reporting detailed in 40 CFR Part 75 shall not be required unless Montana is able to receive and process data in an electronic format.
- d. CELP shall maintain a file of all measurements and performance testing results from the MEMS; all MEMS performance evaluations; all MEMS or monitoring device calibration checks and audits; and records of all adjustments and maintenance performed on these systems or devices recorded in a permanent form suitable for inspection. The file shall be retained on site for at least 5 years following the date of such measurements and reports. CELP shall make these records available for inspection by the Department and shall supply these records to the Department upon request.