April 6, 2016

Michael R. Cashell
NorthWestern Energy
Dry Creek Field Compressor Station
40 East Broadway
Butte, MT 59701

RE: Permit Renewal, Proposed Title V Operating Permit #OP2784-10

Dear Mr. Cashell:

The Department of Environmental Quality has prepared the enclosed Proposed Operating Permit #OP2784-10, for a compressor station, located in SE¼ of the SW¼ of Section 34, Township 6 South, Range 21 East, Carbon County, Montana. Please review the cover page of the attached permit for information pertaining to the action taking place on Permit #OP2784-10.

If you have any questions, please contact Loni Patterson, the permit writer, at (406) 444-1452 or by email at lpatterson@mt.gov.

Sincerely,

Julie Merkel
Permitting Services Section Supervisor
Air Quality Bureau
(406) 444-3626

Loni Patterson
Environmental Engineer
Air Quality Bureau
(406) 444-1452

JM:LP
Enclosure
Cc: Robert Duraski, US EPA Region VIII 8P-AR
Michael Cashell, NorthWestern Energy
Beth Stimatz, NorthWestern Energy

State of Montana
Department of Environmental Quality
Helena, Montana 59620

AIR QUALITY OPERATING PERMIT NUMBER OP2784-10

Application Received: September 11, 2015
Application Deemed Administratively Complete: September 11, 2015
Application Deemed Technically Complete: October 9, 2015
AFS Number: 030-009-0002A

Draft Issue Date: March 3, 2016
Proposed Issue Date: April 6, 2014
End of EPA 45-day Review: May 23, 2016
Date of Decision:
Effective Date:
Expiration Date:

In accordance with the Montana Code Annotated (MCA) Sections 75-2-217 and 218, and the Administrative Rules of Montana (ARM) Title 17, Chapter 8, Subchapter 12, Operating Permit Program, ARM 17.8.1201, *et seq*.,

NorthWestern Energy
Dry Creek Field Station
40 East Broadway
Butte, MT 59701

hereinafter referred to as "NWE", is authorized to operate a stationary source of air contaminants consisting of the emission units described in this permit. Until this permit expires or is modified or revoked, NWE is allowed to discharge air pollutants in accordance with the conditions of this permit. All conditions in this permit are federally and state enforceable unless otherwise specified. Requirements which are state only enforceable are identified as such in the permit. A copy of this permit must be kept on site at the above named facility.

Permit Issuance and Appeal Process: In accordance with ARM 17.8.1232, the Department of Environmental Quality (Department) provided a 30-day public comment period from 3/3/2016 to 4/4/2016, on the draft permit. Any comments received by the Department regarding this permit have been summarized in the attached technical review document. This proposed permit will be sent to the United States Environmental Protection Agency (EPA). The EPA is allowed a 45-day review period on the proposed permit. After the EPA comment period has expired, the Department intends to issue a decision on the permit. In accordance with Section 75-2-218, MCA, the Department decision regarding issuance of an operating permit is not effective until 30 days have elapsed from the date of the decision. The decision may be appealed to the Board of Environmental Review (Board) by filing a request for a hearing within 30 days after the date of decision. The filing of a request for hearing does not stay the Department's decision, unless the Board orders a stay upon receipt of a petition and a finding that a stay is appropriate under Section 75-2-218(6)(b), MCA. If no stay is ordered, the Department's decision on the application is final 30 days after the decision is made. For more information please contact the Department at (406) 444-3490.

SECTION I. GENERAL INFORMATION 1

SECTION II. SUMMARY OF EMISSION UNITS 2

SECTION III. PERMIT CONDITIONS 3

A. FACILITY-WIDE 3
B. EU001 AND EU005: 660-HP INGERSOLL RAND COMPRESSOR ENGINE AND 1,100-HP SOLAR SATURN TURBINE-DRIVEN COMPRESSOR 6
C. EU002: 800-HP WHITE SUPERIOR COMPRESSOR ENGINE 8
D. EU003: 300-HP AJAX DPC COMPRESSOR ENGINE 10
E. EU004: 360-HP AJAX DPC COMPRESSOR ENGINE 13
F. EU006: 750 MBTU/HR TRIETHYLENE GLYCOL DEHYDRATOR AND GLYCOL VENT EMISSIONS 16
G. EU007: JOULE THOMPSON REFRIGERATION UNIT 17
H. EU008: FUEL STORAGE TANKS 18
I. EU009: EMERGENCY BACKUP GENERATOR 19
J. EU010: SMART ASH BURNER 21

SECTION IV. NON-APPLICABLE REQUIREMENTS 22

A. FACILITY-WIDE 22
B. EMISSION UNITS 24

SECTION V. GENERAL PERMIT CONDITIONS 25

A. COMPLIANCE REQUIREMENTS 25
B. CERTIFICATION REQUIREMENTS 25
C. PERMIT SHIELD 26
D. MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS 27
E. PROMPT DEVIATION REPORTING 28
F. EMERGENCY PROVISIONS 29
G. INSPECTION AND ENTRY 29
H. FEE PAYMENT 30
I. MINOR PERMIT MODIFICATIONS 30
J. CHANGES NOT REQUIRING PERMIT REVISION 30
K. SIGNIFICANT PERMIT MODIFICATIONS 32
L. REOPENING FOR CAUSE 32
M. PERMIT EXPIRATION AND RENEWAL 33
N. SEVERABILITY CLAUSE 33
O. TRANSFER OR ASSIGNMENT OF OWNERSHIP 33
P. EMISSIONS TRADING, MARKETABLE PERMITS, ECONOMIC INCENTIVES 34
Q. NO PROPERTY RIGHTS CONVEYED 34
R. TESTING REQUIREMENTS 34
S. SOURCE TESTING PROTOCOL 34
T. MALFUNCTIONS 34
U. CIRCUMVENTION 34
V. MOTOR VEHICLES 34
W. ANNUAL EMISSIONS INVENTORY 34
X. OPEN BURNING 35
Y. MONTANA AIR QUALITY PERMITS 35
Z. NATIONAL EMISSION STANDARD FOR ASBESTOS 36
AA. ASBESTOS 36
BB. STRATOSPHERIC OZONE PROTECTION – SERVICING OF MOTOR VEHICLE AIR CONDITIONERS 36

CC. STRATOSPHERIC OZONE PROTECTION – RECYCLING AND EMISSION REDUCTIONS 36
DD. EMERGENCY EPISODE PLAN 37
EE. DEFINITIONS 37

APPENDIX A INSIGNIFICANT EMISSION UNITS A-1

APPENDIX B DEFINITIONS AND ABBREVIATIONS B-1

APPENDIX C NOTIFICATION ADDRESSES C-1

APPENDIX D AIR QUALITY INSPECTOR INFORMATION D-1

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: NorthWestern Energy

Mailing Address: 40 East Broadway

City: Butte State: Montana Zip: 59701

Plant Location: SE¼ of the SW¼ of Section 34, Township 6 South, Range 21 East, Carbon County, Montana

Responsible Official:	Michael R. Cashell	Phone: (406) 497-4575 Email: michael.cashell@northwestern.com
Facility Contact Person:	Beth Stimatz	Phone: (406) 497-2687 Email: beth.stimatz@northwestern.com

Primary SIC Code: 4923

Nature of Business: Natural Gas Transmission

Description of Process: NWE's Dry Creek Field Compressor Station serves as a natural gas compressor station. The storage units are used primarily to inject natural gas into the storage field during the off season to replace gas withdrawn by natural feed during the previous heating season. The storage units can be used to withdraw from storage or in transmission service. During withdrawal from storage, the gas is first dehydrated using the glycol contactor vessel(s) and then stripped of the heavy-end hydrocarbons by passing through a Joule-Thompson type refrigeration plant before entering the transmission line at approximately 500 to 700 pounds per square inch (psig).

The production compressors withdraw natural gas from local production wells and increase the gas pressure before entering the mechanical refrigeration plant, which removes both water and hydrocarbons heavier than natural gas. The production gas stream then enters the pipeline and is transported east or west, or to the inlet of the storage compressors for injection into the storage field. Discharge pressures on the production compressors may range from 350 to 700 psig.

The complex has two other purposes. The first is to pump the field gas up to the required pressure in the natural gas transmission system. Compression of the gas is accomplished using the four compressor engines. Three heaters provide heat to the various station facilities. The second purpose is to "dry" the gas as it is being processed using a dehydrator or glycol unit. NWE has three glycol units at this site, which have heat inputs ranging from 256 to 900 thousand British thermal units per hour (MBtu/hr). In the mechanical refrigeration unit, gas is treated with a glycol solution, which absorbs the water in the gas stream. The glycol solution is then heated to about 375 degrees Fahrenheit (°F) to drive off the water and return the glycol. The heat necessary for the dehydration is generated by burning natural gas in the dehydrator reboiler.

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	660-horsepower (hp) Ingersoll Rand Four-Stroke Rich Burn Compressor Engine	None
EU002	800-hp White Superior Four-Stroke Lean Burn Compressor Engine	None
EU003	300-hp Ajax Two-Stroke Rich Burn Compressor Engine	None
EU004	360-hp Ajax Two-Stroke Rich Burn Compressor Engine	None
EU005	1,100-hp Solar Saturn turbine-driven compressor	None
EU006	750 MBtu/hr Triethylene Glycol Dehydrator and Glycol Vent Emissions	None
EU007	Joule-Thompson Refrigeration Unit	None
EU008	Fuel Storage Tanks	None
EU009	Emergency Backup Generator	None
EU010	Smart Ash Burner	None

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 SCF
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 Reporting	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), NWE 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), NWE 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), NWE 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), NWE 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, NWE 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, NWE 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, NWE 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), NWE shall not burn liquid or solid fuels containing sulfur in excess of 1 pound per MMBtu fired, unless otherwise specified by rule or in this permit.

A.10. Pursuant to ARM 17.8.322(5), NWE 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 at standard conditions, unless otherwise specified by rule or in this permit.

A.11. Pursuant to ARM 17.8.324(3), NWE 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, NWE 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 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, NWE 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, NWE 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, NWE 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. NWE 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, NWE 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, NWE 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, NWE 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 and EU005: 660-hp Ingersoll Rand compressor engine and 1,100-hp Solar Saturn Turbine-Driven Compressor

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
B.1, B.5, B.7, B.9, B.10	Opacity	40%	Pipeline quality natural gas	Ongoing	Semi-annual
B.2, B.5, B.7, B.9, B.10	Particulate from fuel combustion	$E=1.026*H^{-0.1664}$			
B.3, B.5, B.7, B.9, B.10	Sulfur compounds in fuel (gaseous)	50 grains / 100 SCF			
B.4, B.6, B.8, B.9, B.10	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ		

Conditions

B.1. NWE shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibits an opacity of 40% or greater averaged over 6 consecutive minutes (ARM 17.8.304(1)).

B.2. NWE 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 $E = 1.026 * H^{-0.1664}$ for existing fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

B.3. NWE shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

B.4. NWE shall comply with all of the applicable requirements, including emission limitations, monitoring, recordkeeping, reporting, and testing requirements, of 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

B.5. Monitoring compliance with Sections III.B.1, III.B.2, and III.B.3 may be satisfied by burning pipeline quality natural gas (as defined by NWE's Federal Energy Regulatory Commission (FERC) Gas Tariff) in the 660-hp Ingersoll Rand compressor engine and the 1,100-hp Solar Saturn turbine-driven compressor (ARM 17.8.1213).

B.6. Compliance monitoring for the applicable requirements contained in 40 CFR 63, Subpart ZZZZ shall be accomplished as described in 40 CFR 63, Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63, Subpart ZZZZ).

Recordkeeping

B.7. NWE shall maintain on site, a record noting any instance in which any fuel other than pipeline quality natural gas was used in the 660-hp Ingersoll Rand compressor engine and the 1,100-hp Solar Saturn turbine-driven compressor to monitor compliance with Sections III.B.1, III.B.2, and III.B.3. The record shall include date, time, duration, reason for other fuel use, and operator's initials (ARM 17.8.1212).

B.8. NWE shall perform recordkeeping in accordance with 40 CFR 63, Subpart ZZZZ (ARM 17.8.1212 and 40 CFR 63, Subpart ZZZZ).

Reporting

B.9. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements. (ARM 17.8.1212).

B.10. The semiannual compliance monitoring reports shall include a summary of the information required under Section III.B.7 for any instance of fuel use other than pipeline quality natural gas in the 660-hp Ingersoll Rand compressor engine and the 1,100-hp Solar Saturn turbine-driven compressor, as well as a summary of any reporting required by 40 CFR 63, Subpart ZZZZ, as applicable, during that semiannual period (ARM 17.8.1212).

C. EU002: 800-hp White Superior Compressor Engine

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
C.1, C.8, C.11, C.14, C.15	Opacity	20%	Pipeline quality natural gas	Ongoing	Semi-annual
C.2, C.8, C.11, C.13, C.14	Particulate from fuel combustion	$E=1.026*H^{-0.233}$			
C.3, C.8, C.11, C.13, C.14	Sulfur compounds in fuel (gaseous)	50 grains / 100 SCF			
C.4, C.9, C.12, C.14, C.15	NO_X	26.5 lb/hr	Portable analyzer	Semi-annual	Semi-annual
C.5, C.9, C.12, C.14, C.15	CO	3.17 lb/hr			
C.6, C.8, C.11, C.14, C.15	VOC	0.35 lb/hr	Pipeline quality natural gas	Ongoing	Semi-annual
C.7, C.10, C.13, C.14, C.15	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ		

Conditions

C.1. NWE shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibits an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).

C.2. NWE 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 $E = 1.026 * H^{-0.233}$ for existing fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

C.3. NWE shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

C.4. Nitrogen oxide (NO_x) emissions from the compressor engine shall not exceed 26.5 pounds per hour (lb/hr) (ARM 17.8.749).

C.5. Carbon monoxide (CO) emissions from the compressor engine shall not exceed 3.17 lb/hr (ARM 17.8.749).

C.6. Volatile organic compound (VOC) emissions from the compressor engine shall not exceed 0.35 lb/hr (ARM 17.8.749).

C.7. NWE shall comply with all of the applicable requirements, including emission limitations, monitoring, recordkeeping, reporting, and testing requirements, of 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

C.8. Monitoring compliance with Sections III.C.1, III.C.2, III.C.3, and III.C.6 may be satisfied by burning pipeline quality natural gas (as defined by NWE's FERC Gas Tariff) in the 800-hp White Superior compressor engine (ARM 17.8.1213).

C.9. Semi-annually or whenever changes are made which may cause emissions to exceed permitted levels, NWE shall conduct an emissions test with a portable analyzer in order to monitor the NO_X and CO emissions from the compressor engine. The portable analyzer shall be capable of achieving performance specifications equivalent to EPA traditional methods defined in 40 CFR 60, Appendix A or shall be capable of meeting the requirements of EPA Conditional Test Method 022 for the "Determination of Nitric Oxide, Nitrogen Dioxide, and NO_X Emissions from Stationary Combustion Sources by Electrochemical Analyzer". NWE may use another testing procedure as approved in advance by the Department. All tests must be conducted in accordance to the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). NWE shall monitor compliance with the NO_X and CO emission limitations in Sections III.C.4 and III.C.5, respectively, by converting the emissions test results (ppm) to a mass emissions rate (lb/hr). Stack gas flow rates shall be determined using EPA Test Methods in 40 CFR 60, Appendix A (ARM 17.8.1213).

C.10. Compliance monitoring for the applicable requirements contained in 40 CFR 63, Subpart ZZZZ shall be accomplished as described in 40 CFR 63, Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63, Subpart ZZZZ).

Recordkeeping

C.11. NWE shall maintain on site, a record noting any instance in which any fuel other than pipeline quality natural gas was used in the 800-hp White Superior compressor engine to monitor compliance with Sections III.C.1, III.C.2, III.C.3, and. III.C.6. The record shall include date, time, duration, reason for other fuel use, and operator's initials (ARM 17.8.1212).

C.12. During the emissions test with the portable analyzer NWE shall record, at a minimum, the following information for the compressor engine and portable analyzer (ARM 17.8.1212):

a. Facility name and location;
b. Test date;
c. Name, company, and signature of technician(s) performing the test;
d. Emissions unit number;
e. Engine make, model, and serial number;
f. Rated horsepower;
g. Fuel consumption rate (metered or estimated);
h. Engine operating parameters;
i. Compressor make, model, and serial number;
j. Suction pressure and temperature;
k. Discharge pressure and temperature;
l. Portable analyzer make, model, and serial number;
m. Calibration procedure and data;
n. Test procedure and data;
o. Original test strip-chart and/or original data print out; and
p. EPA Test Method calculations.

C.13. NWE shall perform recordkeeping in accordance with 40 CFR 63, Subpart ZZZZ (ARM 17.8.1212 and 40 CFR 63, Subpart ZZZZ).

Reporting

C.14. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

C.15. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

a. A summary of the information required under Section III.C.11 for any instance of fuel use other than pipeline quality natural gas in the 800-hp White Superior compressor engine; and

b. A summary of the emissions test data and emission calculations as required by Sections III.C.9 and III.C.12.

c. A summary of any reporting required by 40 CFR 63, Subpart ZZZZ, as applicable, during that semiannual period.

D. EU003: 300-hp Ajax DPC Compressor Engine

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
D.1, D.8, D.11, D.14, D.15	Opacity	20%	Pipeline quality natural gas	Ongoing	Semi-annual
D.2, D.8, D.11, D.14, D.15	Particulate from fuel combustion	$E=1.026*H^{-0.233}$			
D.3, D.8, D.11, D.14, D.15	Sulfur compounds in fuel (gaseous)	$\frac{50 \text{ grains}}{100 \text{ SCF}}$			
D.4, D.9, D.12, D.14, D.15	NO_X	2.98 lb/hr	Portable analyzer	Semi-annual	Semi-annual
D.5, D.9, D.12, D.14, D.15	CO	0.60 lb/hr			
D.6, D.8, D.11, D.14, D.15	VOC	0.66 lb/hr	Pipeline quality natural gas	Ongoing	Semi-annual
D.7, D.10, D.13, D.14, D.15	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ		

Conditions

D.1. NWE shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibits an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).

D.2. NWE 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 $E = 1.026 * H^{-0.1664}$ for existing fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

D.3. NWE shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

D.4. NO_X emissions from the compressor engine shall not exceed 2.98 lb/hr (ARM 17.8.749).

D.5. CO emissions from the compressor engine shall not exceed 0.60 lb/hr (ARM 17.8.749).

D.6. VOC emissions from the compressor engine shall not exceed 0.66 lb/hr (ARM 17.8.749).

D.7. NWE shall comply with all of the applicable requirements, including emission limitations, monitoring, recordkeeping, reporting, and testing requirements, of 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

D.8. Monitoring compliance with Sections III.D.1, III.D.2, III.D.3, and III.D.6 may be satisfied by burning pipeline quality natural gas (as defined by NWE's FERC Gas Tariff) in the 300-hp Ajax DPC compressor engine (ARM 17.8.1213).

D.9. Semi-annually or whenever changes are made which may cause emissions to exceed permitted levels, NWE shall conduct an emissions test with a portable analyzer in order to monitor the NO_X and CO emissions from the compressor engine. The portable analyzer shall be capable of achieving performance specifications equivalent to EPA traditional methods defined in 40 CFR 60, Appendix A or shall be capable of meeting the requirements of EPA Conditional Test Method 022 for the "Determination of Nitric Oxide, Nitrogen Dioxide, and NO_X Emissions from Stationary Combustion Sources by Electrochemical Analyzer". NWE may use another testing procedure as approved in advance by the Department. All tests must be conducted in accordance to the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). NWE shall monitor compliance with the NO_X and CO emission limitations in Sections III.D.4 and III.D.5 by converting the emissions test results (ppm) to a mass emissions rate (lb/hr). Stack gas flow rates shall be determined using EPA Test Methods in 40 CFR 60, Appendix A (ARM 17.8.1213).

D.10. Compliance monitoring for the applicable requirements contained in 40 CFR 63, Subpart ZZZZ shall be accomplished as described in 40 CFR 63, Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63, Subpart ZZZZ).

Recordkeeping

D.11. NWE shall maintain on site, a record noting any instance in which any fuel other than pipeline quality natural gas was used in the 300-hp Ajax DPC compressor engine to monitor compliance with Sections III.D.1, III.D.2, III.D.3, and. III.D.6. The record shall include date, time, duration, reason for other fuel use, and operator's initials (ARM 17.8.1212).

D.12. During the emissions test with the portable analyzer NWE shall record, at a minimum, the following information for the compressor engine and portable analyzer (ARM 17.8.1212):

a. Facility name and location;
b. Test date;
c. Name, company, and signature of technician(s) performing the test;
d. Emissions unit number;
e. Engine make, model, and serial number;
f. Rated horsepower;
g. Fuel consumption rate (metered or estimated);
h. Engine operating parameters;
i. Compressor make, model, and serial number;
j. Suction pressure and temperature;
k. Discharge pressure and temperature;
l. Portable analyzer make, model, and serial number;
m. Calibration procedure and data;
n. Test procedure and data;
o. Original test strip-chart and/or original data print out; and
p. EPA Test Method calculations.

D.13. NWE shall perform recordkeeping in accordance with 40 CFR 63, Subpart ZZZZ (ARM 17.8.1212 and 40 CFR 63, Subpart ZZZZ).

Reporting

D.14. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

D.15. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

a. A summary of the information required under Section III.D.11 for any instance of fuel use other than pipeline quality natural gas in the 300-hp Ajax DPC compressor engine; and

b. A summary of the emissions test data and emission calculations as required by Sections III.D.9 and III.D.12.

c. A summary of any reporting required by 40 CFR 63, Subpart ZZZZ, as applicable, during that semiannual period.

E. EU004: 360-hp Ajax DPC Compressor Engine

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
E.1, E.8, E.11, E.14, E.15	Opacity	20%	Pipeline quality natural gas	Ongoing	Semi-annual
E.2, E.8, E.11, E.14, E.15	Particulate from fuel combustion	$E=1.026*H^{-0.233}$			
E.3, E.8, E.11, E.14, E.15	Sulfur compounds in fuel (gaseous)	50 grains / 100 SCF			
E.4, E.9, E.12, E.14, E.15	NO_X	3.57 lb/hr	Portable analyzer	Ongoing	Semi-annual
E.5, E.9, E.12, E.14, E.15	CO	0.71 lb/hr			
E.6, E.8, E.11, E.14, E.15	VOC	0.79 lb/hr	Pipeline quality natural gas	Ongoing	Semi-annual
E.7, E.10, E.13, E.14, E.15	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ	Ongoing	Semi-annual

Conditions

E.1. NWE shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibits an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).

E.2. NWE 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 $E = 1.026 * H^{-0.233}$ for existing fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

E.3. NWE shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

E.4. NO_X emissions from the compressor engine shall not exceed 3.57 lb/hr (ARM 17.8.749).

E.5. CO emissions from the compressor engine shall not exceed 0.71 lb/hr (ARM 17.8.749).

E.6. VOC emissions from the compressor engine shall not exceed 0.79 lb/hr (ARM 17.8.749).

E.7. NWE shall comply with all of the applicable requirements, including emission limitations, monitoring, recordkeeping, reporting, and testing requirements, of 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

E.8. Monitoring compliance with Sections III.E.1, III.E.2, III.E.3, and III.E.6 may be satisfied by burning pipeline quality natural gas (as defined by NWE's FERC Gas Tariff) in the 360-hp Ajax DPC compressor engine (ARM 17.8.1213).

E.9. Semi-annually or whenever changes are made which may cause emissions to exceed permitted levels, NWE shall conduct an emissions test with a portable analyzer in order to monitor the NO_X and CO emissions from the compressor engine. The portable analyzer shall be capable of achieving performance specifications equivalent to EPA traditional methods defined in 40 CFR 60, Appendix A or shall be capable of meeting the requirements of EPA Conditional Test Method 022 for the "Determination of Nitric Oxide, Nitrogen Dioxide, and NO_X Emissions from Stationary Combustion Sources by Electrochemical Analyzer". NWE may use another testing procedure as approved in advance by the Department. All tests must be conducted in accordance to the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). NWE shall monitor compliance with the NO_X and CO emission limitations in Sections III.E.4 and III.E.5 by converting the emissions test results (ppm) to a mass emissions rate (lb/hr). Stack gas flow rates shall be determined using EPA Test Methods in 40 CFR 60, Appendix A (ARM 17.8.1213).

E.10. Compliance monitoring for the applicable requirements contained in 40 CFR 63, Subpart ZZZZ shall be accomplished as described in 40 CFR 63, Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63, Subpart ZZZZ).

Recordkeeping

E.11. NWE shall maintain on site, a record noting any instance in which any fuel other than pipeline quality natural gas was used in the 360-hp Ajax DPC compressor engine to monitor compliance with Sections III.E.1, III.E.2, III.E.3, and. III.E.6. The record shall include date, time, duration, reason for other fuel use, and operator's initials (ARM 17.8.1212).

E.12. During the emissions test with the portable analyzer NWE shall record, at a minimum, the following information for the compressor engine and portable analyzer (ARM 17.8.1212):

a. Facility name and location;
b. Test date;
c. Name, company, and signature of technician(s) performing the test;
d. Emissions unit number;
e. Engine make, model, and serial number;
f. Rated horsepower;
g. Fuel consumption rate (metered or estimated);
h. Engine operating parameters;
i. Compressor make, model, and serial number;
j. Suction pressure and temperature;
k. Discharge pressure and temperature;
l. Portable analyzer make, model, and serial number;
m. Calibration procedure and data;
n. Test procedure and data;
o. Original test strip-chart and/or original data print out; and
p. EPA Test Method calculations.

E.13. NWE shall perform recordkeeping in accordance with 40 CFR 63, Subpart ZZZZ (ARM 17.8.1212 and 40 CFR 63, Subpart ZZZZ).

Reporting

E.14. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

E.15. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

a. A summary of the information required under Section III.E.11 for any instance of fuel use other than pipeline quality natural gas in the 360-hp Ajax DPC compressor engine; and

b. A summary of the emissions test data and emission calculations as required by Sections III.E.9 and III.E.12.

c. A summary of any reporting required by 40 CFR 63, Subpart ZZZZ, as applicable, during that semiannual period.

F. EU006: 750 MBtu/hr Triethylene Glycol Dehydrator and Glycol Vent Emissions

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
F.1, F.3, F.5, F.7, F.8	Opacity	20%	Pipeline quality natural gas	Ongoing	Semi-annual
F.2, F.4, F.7, F.8	40 CFR 63, Subpart HH	40 CFR 63, Subpart HH	40 CFR 63, Subpart HH	40 CFR 63, Subpart HH	

Conditions

F.1. NWE 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(2)).

F.2. NWE shall comply with all of the applicable requirements of 40 CFR 63, Subpart HH – National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities (ARM 17.8.342 and 40 CFR 63, Subpart HH).

Compliance Demonstration

F.3. Monitoring compliance with Sections III.F.1 may be satisfied by burning pipeline quality natural gas (as defined by NWE's FERC Gas Tariff) in the dehydration unit (ARM 17.8.1213).

F.4. Compliance monitoring for the applicable requirements contained in 40 CFR 63, Subpart HH shall be accomplished as described in 40 CFR 63, Subpart HH (ARM 17.8.342 and 40 CFR 63, Subpart HH).

Recordkeeping

F.5. NWE shall maintain on site, a record noting any instance in which any fuel other than pipeline quality natural gas was used in the dehydration unit to monitor compliance with Sections III.F.1. The record shall include date, time, duration, reason for other fuel use, and operator's initials (ARM 17.8.1212).

F.6. NWE shall perform recordkeeping in accordance with 40 CFR 63, Subpart HH (ARM 17.8.342 and 40 CFR 63, Subpart HH).

Reporting

F.7. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

F.8. The semiannual compliance monitoring reports shall include a summary of the information required under Section III.F.3 for any instance of fuel use other than pipeline quality natural gas in the dehydration unit (ARM 17.8.1212).

G. EU007: Joule Thompson Refrigeration Unit

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
G.1, G.5, G.7, G.9, G.10	Opacity	20%	Pipeline quality natural gas	Ongoing	Semi-annual
G.2, G.5, G.7, G.9, G.10	Particulate from fuel combustion	$E=1.026*H^{-0.233}$			
G.3, G.5, G.7, G.9, G.10	Sulfur compounds in fuel (gaseous)	50 grains / 100 SCF			
G.4, G.6, G.8, G.9, G.10	VOC equipment leaks	40 CFR 60, Subpart KKK	40 CFR 60, Subpart KKK	40 CFR 60, Subpart KKK	Semi-annual

Conditions

G.1. NWE shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibits an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).

G.2. NWE 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 $E = 1.026 * H^{-0.233}$ for existing fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

G.3. NWE shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

G.4. NWE shall comply with all applicable standards, limitations, and the reporting, record keeping, and notification requirements as required by 40 CFR 60, Subpart KKK Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants included in Appendix F (ARM 17.8.340 and 40 CFR 60, Subpart KKK).

Compliance Demonstration

G.5. Monitoring compliance with Sections III.G.1, III.G.2, and III.G.3 may be satisfied by burning pipeline quality natural gas (as defined by NWE's FERC Gas Tariff) in the refrigeration unit (ARM 17.8.1213).

G.6. NWE shall monitor compliance as required by 40 CFR 60, Subpart KKK included in Appendix F of this permit (ARM 17.8.340 and 40 CFR 60, Subpart KKK).

Recordkeeping

G.7. NWE shall maintain on site, a record noting any instance in which any fuel other than pipeline quality natural gas was used in the refrigeration unit to monitor compliance with Sections III.G.1, III.G.2, and III.G.3. The record shall include date, time, duration, reason for other fuel use, and operator's initials (ARM 17.8.1212).

G.8. NWE shall maintain all recordkeeping requirements as required by 40 CFR 60, Subpart KKK §60.635 included in Appendix F (ARM 17.8.304 and 40 CFR 60, Subpart KKK).

Reporting

G.9. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

G.10. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

a. A summary of the information required under Section III.G.7 for any instance of fuel use other than pipeline quality natural gas in the refrigeration unit; and

b. A summary of all recordkeeping as required by 40 CFR 60, Subpart KKK §60.636.

H. EU008: Fuel Storage Tanks

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
H.1, H.3, H.5, H.7, H.8	Opacity	20%	Method 9	As required by the Department and Section III.A.1	Semi-annual
H.2, H.4, H.6, H.7, H.8	Gasoline storage tanks >250 gallon	Permanent submerged fill pipe	Verification	Ongoing	Semi-annual

Conditions

H.1. NWE 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(2)).

H.2. NWE shall not load or permit the loading of gasoline into any stationary tank with the capacity of 250 gallons or more from any tank truck, except through a permanent submerged fill pipe, unless such tank is equipped with a vapor loss control device (ARM 17.8.324(3)).

Compliance Demonstration

H.3. As required by the Department and Section III.A.1, NWE shall perform a Method 9 test in accordance with Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). Each observation period shall be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period shall be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

H.4. NWE shall maintain a permanent submerged fill pipe or another vapor loss control device as required in Section III.H.2 on all gasoline tanks greater than 250 gallons (ARM 17.8.1213).

Recordkeeping

H.5. Method 9 test reports must be maintained on-site and must be submitted to the Department upon request in accordance with Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

H.6. NWE shall maintain a record verifying that all gasoline tanks greater than 250 gallons have a permanent submerged fill pipe or another vapor loss control device to monitor compliance with Section III.H.2 (ARM 17.8.1212).

Reporting

H.7. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

H.8. The semiannual compliance monitoring reports shall provide a summary of the results of any test conducted during the last reporting period as required by Section III.H.5 (ARM 17.8.1212).

I. EU009: Emergency Backup Generator

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
I.1, I.6, I.9, I.12, I.13	Opacity	20%	Pipeline quality natural gas	Ongoing	Semi-annual
I.2, I.6, I.9, I.12, I.13	Particulate from fuel combustion	$E=1.026*H^{-0.233}$			
I.3, I.6, I.9, I.12, I.13	Sulfur compounds in fuel (gaseous)	50 grains / 100 SCF			
I.4, I.8, I.11, I.12, I.13	Backup generator operation	500 hr/yr	Log operation	As needed	Semi-annual
I.5, I.8, I.11, I.12, I.13	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ	40 CFR 63, Subpart ZZZZ	Ongoing	Semi-annual

Conditions

I.1. NWE 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(2)).

I.2. NWE 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 rate calculated by: $E = 1.026 * H^{-0.233}$ for existing fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

I.3. NWE shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

I.4. NWE shall operate the emergency backup generator engine no more than 500 hours per calendar year and shall not operate the generator engine as a part of routine operations (ARM 17.8.749).

I.5. NWE shall comply with all of the applicable requirements, including emission limitations, monitoring, recordkeeping, reporting, and testing requirements, of 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

I.6. Monitoring compliance with Sections III.I.1, III.I.2, and III.I.3 may be satisfied by burning pipeline quality natural gas (as defined by NWE's FERC Gas Tariff) in the emergency backup generator (ARM 17.8.1213).

I.7. NWE shall log the dates and reasons for operating the emergency generator engine, the hours of operation, and the estimated amount of fuel consumed by the generator engine (ARM 17.8.1213).

I.8. Compliance monitoring for the applicable requirements contained in 40 CFR 63, Subpart ZZZZ shall be accomplished as described in 40 CFR 63, Subpart ZZZZ (ARM 17.8.342 and 40 CFR 63, Subpart ZZZZ).

Recordkeeping

I.9. NWE shall maintain on site, a record noting any instance in which any fuel other than pipeline quality natural gas was used in the emergency backup generator to monitor compliance with Sections III.I.1, III.I.2, and III.I.3. The record shall include date, time, duration, reason for other fuel use, and operator's initials (ARM 17.8.1212).

I.10. NWE shall maintain, on-site, the emergency backup generator engine operation logs as required by Section III.I.6 (ARM 17.8.1212).

I.11. NWE shall perform recordkeeping in accordance with 40 CFR 63, Subpart ZZZZ (ARM 17.8.1212 and 40 CFR 63, Subpart ZZZZ).

Reporting

I.12. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

I.13. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

a. A summary of the information required under Section III.I.7 for any instance of fuel use other than pipeline quality natural gas in the emergency backup generator; and

b. A summary of the emergency backup generator engine operation logs required by Section III.I.9., as well as a summary of any reporting required by 40 CFR 63, Subpart ZZZZ, as applicable, during that semiannual period (ARM 17.8.1212).

J. EU010: Smart Ash Burner

Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration Method	Compliance Demonstration Frequency	Reporting Requirements
J.1, J.3, J.5, J.7, J.8	Opacity	10%	Method 9	As required by the Department and Section III.A.1	Semi-annual
J.2, J.4, J.6, J.7, J.8	Burner operation	Oil rags, oil absorbents, and filters	Log	When burning	Semi-annual

Conditions

J.1. NWE shall not cause or authorize to be discharged into the atmosphere from the Smart Ash Burner any visible emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.752).

J.2. NWE shall not incinerate any material other than oil soaked rags, oil adsorbents, and filters in the Smart Ash Burner. Hazardous wastes may not be incinerated in the Smart Ash Burner (ARM 17.8.749).

Compliance Demonstration

J.3. As required by the Department and Section III.A.1, NWE shall perform a Method 9 test in accordance with Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

J.4. NWE shall maintain a log of material burned and date and time the Smart Ash Burner is used to monitor compliance with Section III.J.2 (ARM 17.8.1213).

Recordkeeping

J.5. Method 9 test reports must be maintained on-site and must be submitted to the Department upon request in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

J.6. NWE shall maintain, on-site, the log of material burned in the Smart Ash Burner required by Section III.J.4 (ARM 17.8.1212).

Reporting

J.7. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

J.8. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

a. A summary of the results of any required test that was conducted during the reporting period as required by Section III.J.5; and

b. A summary of the log of material burned in the Smart Ash Burner required by Section III.J.4.

SECTION IV. NON-APPLICABLE REQUIREMENTS

Air Quality Administrative Rules of Montana (ARM) and Federal Regulations identified as not applicable to the facility at the time of the permit issuance are listed below (ARM 17.8.1214). The following list does not preclude NWE from complying with any new requirement that may become applicable during the permit term.

A. Facility-Wide

Rule Citation		Reason
State	Federal	
ARM 17.8.321 ARM 17.8.323 ARM 17.8.331 ARM 17.8.332 ARM 17.8.333 ARM 17.8.334 ARM 17.8.335 ARM 17.8.506 ARM 17.8.610 ARM 17.8, Subchapters 16 and 17		These rules are not applicable because the facility is not listed in the source category cited in the rules.
ARM 17.8.316 ARM 17.8.320		These rules are not applicable because the facility does not have the specific emissions unit that is cited in the rules.
ARM 17.8.809 ARM 17.8.818 ARM 17.8.819 ARM 17.8.820 ARM 17.8.821 ARM 17.8.822 ARM 17.8.823 ARM 17.8.824 ARM 17.8.827 ARM 17.8.1106 ARM 17.8.1107 ARM 17.8.1110 ARM 17.8.1111		These rules are not applicable because the facility has not made any changes that would trigger these procedural rule requirements.
ARM 17.8, Subchapters 13 and 14		These rules apply only to the Department, EPA, and/or regional authorities.
	40 CFR 55	These rules are not applicable to the facility because it is not located on an outer continental shelf.
	40 CFR 57 40 CFR 59 40 CFR 60, Subparts B, C, Cb, Cc, Cd, and Ce 40 CFR 60, Subparts D, Da, Db, Dc 40 CFR 60, Subparts E-J 40 CFR 60, Subparts Ja, K, Ka, Kb 40 CFR 60, Subparts L-Z 40 CFR 60, Subparts AA-EE 40 CFR 60, Subpart 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-JJJ 40 CFR 60, Subpart LLL-WWW 40 CFR 60, Subparts AAAA-FFFF 40 CFR 60, Subparts LLLL-MMMM 40 CFR 61, Subparts B-F	These requirements are not applicable because the facility is not an affected source as defined in these regulations.

Rule Citation		Reason
State	Federal	
	40 CFR 61, Subparts H-L 40 CFR 61, Subparts N-R 40 CFR 61, 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-J 40 CFR 63, Subparts L-O 40 CFR 63, Subpart Q-U 40 CFR 63, Subpart W-Y 40 CFR 63, Subpart AA-EE 40 CFR 63, Subpart GG 40 CFR 63, Subpart II-MM 40 CFR 63, Subparts OO-YY 40 CFR 63, Subparts CCC-EEE 40 CFR 63, Subparts GGG-JJJ 40 CFR 63, Subparts LLL-RRR 40 CFR 63, Subparts TTT-VVV 40 CFR 63, Subpart XXX 40 CFR 63, Subpart AAAA 40 CFR 63, Subparts CCCC-KKKK 40 CFR 63, Subparts MMMM-XXXX 40 CFR 63, Subparts AAAAA-NNNNN 40 CFR 63, Subparts PPPPP-UUUUU 40 CFR 63, Subpart WWWWW 40 CFR 63, Subpart YYYYY-ZZZZZ 40 CFR 63, Subparts CCCCCC-HHHHHH 40 CFR 63, Subparts LLLLLL-TTTTTT 40 CFR 63, Subparts VVVVVV-ZZZZZZ 40 CFR 63, Subparts AAAAAAA-EEEEEEE 40 CFR 63 Subpart HHHHHHH 40 CFR 63, Appendices B-E 40 CFR 65 40 CFR 79-80 40 CFR 82, Subpart A, C, D, G, H 40 CFR 85-86 40 CFR 88 40 CFR 93 40 CFR 95-97	
	40 CFR 60, Subpart GG 40 CFR 60, Subparts IIII-KKKK 40 CFR 63, Subparts YYYY 40 CFR 63, Subpart JJJJJJ 40 CFR 68 40 CFR 69 40 CFR 87 40 CFR 89-92 40 CFR 94	These requirements refer to a process, equipment, or activity that is not used at this facility
	40 CFR 72-40 CFR 78	These requirements are not applicable because the facility is not an affected source as defined by the acid rain regulations.

B. Emission Units

NorthWestern did not request a shield for specific emission units; therefore, a permit shield will not be granted to individual emission units.

SECTION V. GENERAL PERMIT CONDITIONS

A. Compliance Requirements

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

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 to the Department within the following timeframes (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 a Montana Air Quality 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 (ARM 17.8.745(1) and 764(1)(b)).

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 a 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 Montana Air Quality 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 NWE, 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 five 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 NWE. Because there are no requirements to update such a list, the emission units and/or activities may change from those specified in the table.

Emission Units ID	Description
IEU01	256 MBtu/hr Dehydrator Reboiler
IEU02	900 MBtu/hr Dehydrator Reboiler
IEU03	Building Heaters < 1MMBtu/hr
IEU04	Mechanical Refrigeration Unit
IEU05	Process Valves

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 NWE;

(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; and

(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
BDT	bone dry tons
BTU	British Thermal Unit
CFR	Code of Federal Regulations
CO	carbon monoxide
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
Mbdft	thousand board feet
Method 5	40 CFR 60, Appendix A, Method 5
Method 9	40 CFR 60, Appendix A, Method 9
MMbdft	million board feet
MMBTU	million British Thermal Units
NOx	oxides of nitrogen
NO_2	nitrogen dioxide
O_2	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_2	sulfur dioxide
SOx	oxides of sulfur
tpy	tons per year
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 Quality Bureau
P.O. Box 200901
Helena, MT 59620-0901

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

Permit Modifications:

Montana Department of Environmental Quality
Permitting and Compliance Division
Air Quality 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 NWE, permitting authority inspectors, and the public.

1. **Direction to Plant:** The Dry Creek Field station is located in the SE¼ of the SW¼ of Section 34, Township 6 South, Range 21 East in Carbon County, Montana. The general site location is approximately 6 miles northeast of Red Lodge near Big Slide Mountain.

2. **Safety Equipment Required:** Hard hat, safety glasses, and hearing protection are required at the facility. In addition to the above-mentioned items, and at the direction of NWE, additional PPE may be required, including but not limited to fire-resistant clothing, respirators, etc.

3. **Facility Plot Plan:** A facility plot plan was submitted on June 7, 1996, as part of NWE's Title V Operating Permit Application.