



February 6, 2026

Mariah Mandt
Montana Renewables LLC
1900 10th Street NE
Great Falls, MT 59404

Sent via email: Mariah.Mandt@calumet.com

RE: **Final Title V Operating Permit #OP5263-01**

Dear Miss Mandt:

DEQ prepared this Final Operating Permit #OP5263-01, for the Montana Renewables LLC Renewable Fuels Plant, located in Great Falls, Montana.

This permit must be kept at the facility or a DEQ-approved location

If you have any questions contact Craig Henrikson, the permit writer, at (406) 444-6711 or by email at chenrikson@mt.gov.

For DEQ,

A handwritten signature in black ink, appearing to read "Eric Merchant".

Eric Merchant, Supervisor
Air Quality Permitting Services Section
Air Quality Bureau
Air, Energy, and Mining Division
(406) 444-3626

A handwritten signature in black ink, appearing to read "Craig Henrikson".

Craig Henrikson P.E.
Air Quality Permitting Services Section
Environmental Engineer
Air Quality Bureau
(406) 444-6711

cc: Branch Chief, Air Permitting and Monitoring Branch, US EPA Region VIII 8ARD-PM
US EPA Region VIII, Montana Office
Robert Gallagher, US EPA Region VIII, Montana Office

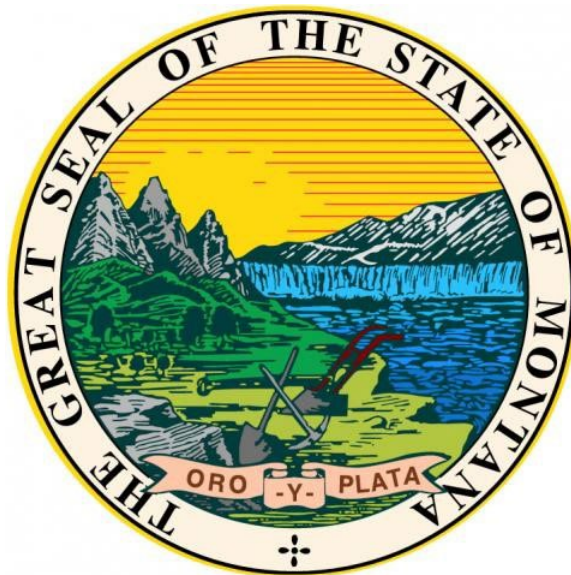
Montana Department of Environmental Quality

Air, Energy & Mining Division
Air Quality Bureau

AIR QUALITY OPERATING PERMIT #OP5263-01

Issued to: **Montana Renewables LLC
Great Falls Renewable Fuels Plant
1900 10th Street Northeast
Great Falls, MT 59404**

Administrative Amendment Application Received:	11/25/2025
Application Deemed Administratively Complete:	11/25/2025
Application Deemed Substantively Complete:	11/25/2025
Date of Decision:	01/06/2026
Effective Date:	02/06/2026
Expiration Date:	05/13/2030
Complete Renewal Application Due:	11/13/2029
AFS Number: 030-013-0050	



Permit Issuance and Appeal Processes: DEQ issues this permit as effective and final on February 6, 2026. This permit must be kept at the facility or a DEQ-approved location (Montana Code Annotated (MCA) Sections 75-2-217 and 218, Administrative Rules of Montana (ARM), ARM Title 17, Chapter 8, Subchapter 12, Operating Permit Program).

Montana Air Quality Operating Permit
Department of Environmental Quality

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Terms not otherwise defined in this permit, or in the Definitions and Abbreviations Appendix B 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: Montana Renewables, LLC

Mailing Address: 1900 10th Street Northeast

City: Great Falls

State: MT

Zip: 59404

Plant Location: NE¼, Section 1, Township 20 North, Range 3 East, Cascade County

Responsible Official: Mariah Mandt, General Manager

Facility Contact Person: Joseph Dauner, Environmental Manager

Primary SIC Code: 2869 Industrial Organic Chemicals, Not Elsewhere Classified.

Nature of Business: Renewables Fuels Production

Description of Process:

Montana Renewables, LLC (MRL), Great Falls Renewable Fuels Plant uses raw renewable feed pretreatment, treated renewable feed hydroprocessing, and hydrogen generation to produce renewable diesel, renewable kerosene, renewable naphtha and sustainable aviation fuel. The Technical Review Document (TRD) associated with this Title V operating permit includes a more detailed description of the process units shown by the block flow diagram.

Based on grouping of similar equipment, any specific pollution controls for the equipment are listed in Section II. – Summary of Emission Units, below. Within Section II, the groups are identified as follows:

- Hydrogen Plants
- Renewable Diesel Unit
- Hot Oil Heater (Part of PTU)
- PTU and PTU Wastewater Handling
- Tanks
- Low Pressure Boilers each with a Non-Emergency Generator
- Truck and Railcar loading for renewable products and wastewater
- Fugitives and RDU Continuous Process Vents

Based on grouping of similar equipment, the processes with emitting units have permit conditions included in Section III as follows:

- **Section III.C Hydrogen Plant #3** –Creates hydrogen for hydrotreating and hydrocracking
- **Section III.D Hydrogen Plant #4-** Creates hydrogen for hydrotreating and hydrocracking
- **Section III.E Renewable Diesel Unit including Preheaters H-4101 and H-4102**
- **Section III.F Hot Oil Heater H-4201 (Part of PTU)**
- **Section III.G PTU and PTU Wastewater Handling**
- **Section III.H Tanks – For all site feedstocks, intermediates and products**
- **Section III.I Low Pressure Boilers each with Non-Emergency Generator**
- **Section III.J Truck and Railcar Loading for renewable products and wastewater**
- **Section III.K Fugitives and RDU Continuous Process Vents**

SECTION II. SUMMARY OF EMISSION UNITS

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

Title V Section	Description	Pollution Control Device/Practice
Hydrogen Plants		
Section III.C: Hydrogen Plant #3 (15 MMSCFD)		
Hydrogen Plant #3 Identified as EU002 for Emission Inventory Purposes		
	#3 H ₂ Plant Reformer Heaters (combined stack) – H-3815A&B, Annual firing rate 67 MMBtu/hr each (HHV).	Ultra-low NOx Burners
Section III.D: Hydrogen Plant #4 (21MMSCFD)		
Hydrogen Plant #4 Identified as EU004 for Emission Inventory Purposes		
	#4 H ₂ Plant Reformer Heater H-4601, Annual firing rate of 213 MMBtu/hr (HHV)	Ultra-low NOx Burners and Fuel Gas Treatment System
	#4 H ₂ Piping Plant Components	LDAR per State BACT GGGA/VVa, covered in Section III.K. Fugitives
Renewable Diesel Unit (RDU)		
Section III.E: RDU Heaters		
RDU Combined Feed Heater H-4101 and Fractionator Feed Heater H-4102		
H-4101 is identified as EU001, and H-4102 as EU011 for Emission Inventory Purposes		
	RDU Combined Feed Heater, H-4101, Annual firing rate of 54 MMBtu/hr (HHV)	Ultra-low NOx Burners and Fuel Gas Treatment System
	RDU Fractionator Feed Heater, H-4102, Annual firing rate of 38 MMBtu/hr (HHV)	Ultra-low NOx Burners and Fuel Gas Treatment System
Hot Oil System (Part of PTU)		
Section III.F: Hot Oil Heater H-4201		
	Hot Oil Heater H-4201 Annual firing rate of 38 MMBtu/hr (HHV)	Ultra-low NOx Burners
	Hot Oil Expansion Tank D-4203	Covered in Section III.H. Tanks
PTU and Wastewater Loading		
Section III.G: Wastewater Handling		
	Tank 4201 Wastewater Collection Tank (323,877 gallons)	Carbon Adsorption, Covered in Section III.H Tanks
	PTU Blowdown Drum D-4208 (14,692 gallons)	Carbon Adsorption, Covered in Section III.H. Tanks
Tanks		
Section III.H: Tanks		
	Tank 50: 909,152 gallons in Renewable Feed Service	Vertical Fixed Roof Tank
	Tank 102: 909,152 gallons in Renewable Feed Service	Vertical Fixed Roof Tank
	Tank 112: 2,350,080 gallons in Renewable Feed/Slop Oil Service	Vertical Fixed Roof Tank

Title V Section		Description	Pollution Control Device/Practice
		Tank 140: 4,765,951 gallons in Renewable Feed Service	Vertical Fixed Roof Tank
		Tank 301: 4,765,951 gallons in Renewable Feed Service	Vertical Fixed Roof Tank and Submerged Fill
		Tank 302: 909,152 gallons in Renewable Feed Service	Vertical Fixed Roof Tank and Submerged Fill
		Tank 303: 909,152 gallons in Renewable Feed Service	Vertical Fixed Roof Tank and Submerged Fill
		Tank 304: 988,207 gallons in Renewable Naphtha Service	Vertical External Floating Roof Tank, 40 CFR 60 Subpart Kb
		Tank 29: 869,625 gallons in Renewable Diesel Service	Vertical Fixed Roof Tank
		Tank 116: 1,896,229 gallons in Renewable Diesel Service	Vertical Fixed Roof Tank
		Tank 128: 909,482 gallons in Renewable Diesel Service	Vertical Fixed Roof and Submerged Fill
		Tank 305: 4,765,951 gallons in Renewable Diesel Service	Vertical Fixed Roof and Submerged Fill
		Tank 306: 360,972 gallons in Renewable Kerosene Service	Vertical Fixed Roof and Submerged Fill
		Tank 307: 360,972 gallons in Renewable Kerosene Service	Vertical Fixed Roof and Submerged Fill
		Tank 308: 812,190 gallons in Renewable Kerosene/Sustainable Aviation Fuel Service	Vertical Fixed Roof and Submerged Fill
		Tank 309: 812,190 gallons in Renewable Kerosene/Sustainable Aviation Fuel Service	Vertical Fixed Roof and Submerged Fill
		Tank 0801: 8,176 gallons in Conventional Diesel Service	Vertical Fixed Roof and Submerged Fill
LP Boilers and Generators			
Section III.I: LP Boilers and Generators			
		LP Boiler #1, Annual firing of 2 MMBtu/hr (HHV)	Ultra-low sulfur Diesel fuel of maximum 15 ppm sulfur, 40 CFR 63 Subpart DDDDD
		LP Boiler #2, Annual firing of 2 MMBtu/hr (HHV)	Ultra-low sulfur Diesel fuel of maximum 15 ppm sulfur, 40 CFR 63 Subpart DDDDD
		Generator #1 (Maximum 12.5 horsepower)	Ultra-low sulfur Diesel of maximum 15 ppm sulfur, Tier IV Engines, 40 CFR 63 Subpart ZZZZ by meeting the requirement of 40 CFR 60 Subpart IIII (40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart IIII.
		Generator #2 (Maximum 12.5 horsepower)	Ultra-low sulfur Diesel of maximum 15 ppm

Title V Section		Description	Pollution Control Device/Practice
			sulfur, Tier IV Engines, 40 CFR 63 Subpart ZZZZ by meeting the requirement of 40 CFR 60 Subpart IIII (40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart IIII
Section III.J: Truck and Railcar Loading			
Truck and Rail Loading			
		Railcar Loading Rack – Diesel, Kerosene and Sustainable Aviation Fuel	Submerged Fill
		Railcar Loading Rack Naphtha	Vapor Combustor
		Wastewater Loading via Railcar and/or Truck	Carbon Adsorption Device
Section III.K: Fugitives			
		Fugitives and RDU Continuous Process Vents	Various Subpart Best Practices

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

Condi- tions	Rule Citation	Rule Description	Pollutant/Parameter	Limit
A.1	ARM 17.8.105	Testing Requirements	Testing Requirements	-----
A.2	ARM 17.8.106	Source Testing Protocol	Testing, Recordkeeping, and Reporting Requirements	-----
A.3	ARM 17.8.304(2)	Visible Air Contaminants	Opacity	20%
A.4	ARM 17.8.304(3)	Visible Air Contaminants	Opacity	60%
A.5	ARM 17.8.308(1)	Particulate Matter, Airborne	Fugitive Opacity	20%
A.6	ARM 17.8.308(2)	Particulate Matter, Airborne	Reasonable Precautions	-----
A.7	ARM 17.8.308(3)	Particulate Matter, Airborne	Reasonable Precaution, Construction	20%
A.8	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.9	ARM 17.8.310	Particulate Matter, Industrial Processes	Particulate Matter	$E = 4.10 * P^{0.6}$ or $E = 55 * P^{0.11}$ 40
A.10	ARM 17.8.322(4)	Sulfur Oxide Emissions, Sulfur in Fuel	Sulfur in Fuel (liquid or solid fuels)	1 lb/MMBtu fired
A.11	ARM 17.8.322(5)	Sulfur Oxide Emissions, Sulfur in Fuel	Sulfur in Fuel (gaseous)	50 gr/100 CF
A.12	ARM 17.8.324(2)	Hydrocarbon Emissions, Petroleum Products	Oil-effluent Water Separator	-----
A.13	ARM 17.8.340, 40 CFR 60 Part 60	General Provisions	New Stationary Sources	-----
A.14	ARM 17.8.342, 40 CFR Part 63	NESHAPs General Provisions	SSM Plans	Submittal
A.15	ARM 17.8.1211(1)(c) and 40 CFR Part 98 (Not a Title V applicable requirement)	Greenhouse Gas Reporting	Reporting	-----
A.16	ARM 17.8.1212	Reporting Requirements	Prompt Deviation Reporting	-----
A.17	ARM 17.8.615	Firefighting Training Permit	Firefighting Requirements	-----
A.18	40 CFR Part 68	Chemical Accident Prevention	Risk Management Plan	-----
A.19	ARM 17.8.1211	Consent Decree	Consent Decree	-----
A.20	ARM 17.8.1212	Reporting Requirements	Compliance Monitoring	-----
A.21	ARM 17.8.1207	Reporting Requirements	Annual Certification	-----
A.22	ARM 17.8.1211	Consent Decree	Consent Decree	-----

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 of Environmental Quality (DEQ) 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 DEQ.

Compliance demonstration frequencies that list “as required by DEQ” refer to ARM 17.8.105. In addition, compliance with limits and conditions listing “as required by DEQ” is verified annually using emission factors and engineering calculations by DEQ’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 17.8.106, all emission source testing, sampling and data collection, recording analysis, and transmittal must be performed, maintained, and reported in accordance with the Montana Source Test Protocol and Procedures Manual (dated July 1994 unless superseded by rulemaking), unless alternate methods are approved by DEQ. MRL shall clearly indicate the underlying rule or condition requiring the testing, the last source test date, the testing schedule required by the rule or condition, and a preliminary proposed test date, in any source test protocol submitted. (ARM 17.8.1212).
- A.3. Pursuant to ARM 17.8.304(2), MRL 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. This rule does not apply to emissions from new stationary sources listed in ARM 17.8.340 for which a visible emission standard has been promulgated.
- A.4. Pursuant to ARM 17.8.304(3), during the building of new fires, cleaning of grates, or soot blowing, the provisions of ARM 17.8.304(1) and (2) shall apply, except that a maximum average opacity of 60% is permissible for not more than one 4-minute period in any 60 consecutive minutes. Such a 4-minute period means any 4 consecutive minutes.
- A.5. Pursuant to ARM 17.8.308(1), MRL shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter (PM) are taken. Such emissions of airborne PM 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.6. Pursuant to ARM 17.8.308(2), MRL shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne PM, unless otherwise specified by rule or in this permit.
- A.7. Pursuant to ARM 17.8.308(3), MRL shall not operate a construction site or demolition project unless reasonable precautions are taken to control emissions of airborne PM. Such emissions of airborne PM 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.8. Pursuant to ARM 17.8.309, unless otherwise specified by rule or in this permit, MRL shall not cause or authorize PM 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 PM for existing fuel-burning equipment and new fuel-burning equipment calculated using the following equations:

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 British thermal units (MMBtu) per hour and E is the maximum allowable particulate emissions rate in pounds per MMBtu.

- A.9. Pursuant to ARM 17.8.310, unless otherwise specified by rule or in this permit, MRL shall not cause or authorize PM to be discharged from any operation, process, or activity into the outdoor atmosphere in excess of the maximum hourly allowable emissions of PM 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 is the rate of emissions in pounds per hour and P is the process weight rate in tons per hour.

- A.10. Pursuant to ARM 17.8.322(4), MRL 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. This rule shall be interpreted to mean that no person shall burn solid, liquid, or gaseous fuels such that the aggregate sulfur content of all fuels burned within a plant during any day exceeds 1 pound of sulfur per MMBtu fired. The rule shall be interpreted to allow for a daily deviation of 0.1 pound of sulfur per MMBtu fired. The rule shall be interpreted to allow the blending of all fuels burned in a plant during a given time period in determining the aggregate sulfur content for purposes of the rule, and it shall not be construed to require blending or physical mixing of fuels at any given furnace or heater within the plant complex (EPA-approved SIP, September 1979).
- A.11. Pursuant to ARM 17.8.322(5), MRL shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet (gr/100 CF) of gaseous fuel, calculated as hydrogen sulfide at standard conditions, unless otherwise specified by rule or in this permit. This rule shall be interpreted to mean that no person shall burn solid, liquid, or gaseous fuels such that the aggregate sulfur content of all fuels burned within a plant during any day exceeds 1 pound of sulfur per MMBtu fired. The rule shall be interpreted to allow for a daily deviation of 0.1 pound of sulfur per MMBtu fired. The rule shall be interpreted to allow the blending of all fuels burned in a plant during a given time period in determining the aggregate sulfur content for purposes of the rule, and it shall not be construed to require blending or physical mixing of fuels at any given furnace or heater within the plant complex (EPA-approved SIP, September 1979).

- A.12. Pursuant to ARM 17.8.324(2), unless otherwise specified by rule or in this permit, MRL 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.13. Pursuant to ARM 17.8.340 and 40 CFR Part 60, MRL shall comply with all applicable standards and limitations, and the reporting, recordkeeping, and notification requirements, contained in 40 CFR Part 60.
- A.14. Pursuant to ARM 17.8.302 and ARM 17.8.342, and 40 CFR 63.6, the owner or operator must maintain at the affected source a current startup, shutdown, and malfunction plan (if a plan is required by 40 CFR 63.6(e)(3) and the Table for General Provision Applicability of the appropriate subpart), meeting the requirements of 40 CFR 63.6, and must make the plan available upon request. In addition, if the startup, shutdown, and malfunction plan is subsequently revised, the owner or operator must maintain at the affected source each previous (i.e., superseded) version of the startup, shutdown, and malfunction plan, and must make each such previous version available for a period of 5 years after revision of the plan. The owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual (or more frequent) startup, shutdown, and malfunction report required in 40 CFR 63.10(d)(5).
- A.15. Pursuant to ARM 17.8.1211(1)(c) and 40 CFR Part 98, MRL 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. MRL 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 DEQ using the schedule and content as described in Section V.E (unless otherwise specified in an applicable requirement) (ARM 17.8.1212).
- A.17. Pursuant to ARM 17.8.615, MRL shall apply for and comply with a Firefighter Training permit to conduct open burning for fire training purposes for any firefighter training.
- A.18. MRL shall comply with all applicable requirements of 40 CFR Part 68 – Risk Management Plan requirements (ARM 17.8.1211 and 40 CFR 68).
- A.19. MRL shall comply with the applicable terms of US EPA Consent Decree CIV-01-1422LH (entered March 5, 2002), and its Amendments, for the life of the Consent Decree, including the following (ARM 17.8.1211):
- a. Section V: Affirmative Relief/Environmental Projects
 - b. Section VI: Emission Credit Generation
 - c. Section VII: Modification to Implementation Schedules
 - d. Section IX: Reporting and Recordkeeping

- e. Section XIII: Right of Entry
- f. Section XIV: Force Majeure
- g. Section XVII: General Provisions
- h. Section XVIII: Termination

A.20. On or before February 15 and August 15 of each year, MRL shall submit to DEQ the compliance monitoring reports required by Section V.D, as described under ARM 17.8.1212. These reports must contain all information required by Section V.D, as well as the information required by each individual emissions unit. For units equipped with CEMS, excess emissions and monitoring downtime percentages reported on a semiannual basis shall be calculated on a quarterly basis. For the reports due by February 15 of each year, MRL may submit a single report covering both semiannual reporting needs and annual certification needs, provided that it contains all monitoring information reporting required by each emitting unit and the information required by both 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.21. By February 15 of each year, MRL shall submit to DEQ 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. Pursuant to 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.”

A.22. General Prohibition: MRL shall not generate or use any NO_x, SO₂, PM, VOC, or CO emissions reductions that result from any projects conducted or controls required as netting reductions or emissions offsets in any PSD, major non-attainment and/or minor New Source Review ("NSR") permit or permit proceeding (ARM 17.8.1211).

Exception to the General Prohibition: Notwithstanding the general prohibition set forth above, MRL may use 10 tons per year of NO_x and 20 tons per year of SO₂ from the CD Emissions Reductions as credits or offsets in any PSD, major nonattainment

and/or minor NSR permit or permit proceeding occurring after December 2001, provided that the new or modified emissions unit: (1) is being constructed or modified for purposes of compliance with Tier 2 gasoline or low sulfur diesel requirements; and (2) already has emissions limits at the time of permitting as follows:

- a. For heaters and boilers, a limit of 0.020 lbs. NO_x per million BTU or less on a 3-hour rolling average basis;
- b. For heaters and boilers, a limit of 0.10 grains of hydrogen sulfide per dry standard cubic foot of fuel gas or 20 ppmvd SO₂ corrected to 0% O₂, both on a 3-hour rolling average
- c. For heaters and boilers, no liquid or solid fuel firing capabilities.

Conditions Precedent to Utilization of the exception to the general prohibition against the generation or utilization of CD Emissions Reductions set forth above is subject to the following conditions:

- a. Under no circumstances shall MRL use CD Emissions Reductions for netting and/or offsets prior to the time that actual CD Emissions Reductions have occurred;
- b. CD Emissions Reductions may be used only at the MRL facility
- c. The CD Emissions Reductions provisions of the CD are for purposes of the CD only and MRL may not use CD Emissions Reductions for any purpose, including in any subsequent permitting or enforcement proceeding, except as provided herein; and
- d. MRL shall be subject to all federal and state regulations applicable to PSD, major non-attainment and/or minor NSR permitting processes.

B. Emission Limitations

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method	Frequency	Reporting Requirements
B.1, B.6, B.11, B.13, B.15, B.16, B.20, B.21	SO ₂ Emissions	1,515 TPY and 4.15 ton/rolling 24- hours	RFG H ₂ S monitoring systems, data from the FCCU SO ₂ CEMS and the Boilers #1 and #2 SO ₂ CEMS, and stack testing data	Ongoing	Semiannual
B.2, B.7, B.11, B.13, B.15, B.17, B.20, B.21	CO Emissions	4,700 TPY and 12.9 tons/rolling 24- hours	FCCU CO CEMS and stack testing data, including stack tests of the boilers, product loading VCUs	Ongoing	Semiannual
B.3, B.8, B.13, B.14, B.15, B.20, B.21	NO _x	NO _x Reduction Technologies	Recordkeeping	Ongoing	Semiannual
B.4, B.9, B.11, B.12, B.19, B.20, B.21	NO _x	Umbrella Limit: 103.02 TPY	Outlined in each applicable section	Ongoing	Semiannual
B.5, B.10, B.11, B.12, B.19, B.20, B.21	CO	Umbrella Limit: 55.08 TPY	Outlined in each applicable section	Ongoing	Semiannual

Conditions

- B.1. MRL and Calumet Montana Refining (CMR) shall be limited to maximum SO₂ emissions of 1,515 TPY on a rolling 12-month sum basis and 4.15 tons/rolling 24-hours (ARM 17.8.749).
- B.2. MRL and CMR shall be limited to maximum CO emissions of 4,700 TPY on a rolling 12-month sum basis and 12.9 tons/rolling 24-hours (ARM 17.8.749).
- B.3. Any heater or boiler with a heat input capacity of 40 MMBtu/hr or greater shall have installed and operated Next Generation Ultra Low NO_x Burners on any such heater or boiler. The requirement to install Ultra Low NO_x burners only applies until the Consent Decree is closed. MRL shall comply with the remaining provisions of Paragraph 16.C – 16.E

of this section of the Consent Decree for any such heater (ARM 17.8.1211, Consent Decree Section V.16.C.iii).

- B.4. NO_x emissions from the following units, combined, shall not exceed 103.02 tons per year, as determined monthly on a rolling 12-month basis for purposes of PSD avoidance for NO_x associated with the expansion project as permitted in MAQP #2161-30. With the exception of any unit equipped with NO_x CEMS verified via RATA, NO_x emissions shall be determined utilizing emissions factors determined via monthly portable analyzer results for 12 months, after which, emissions factors shall be determined based on source tests. Fuel flow shall be monitored continuously, and heat content of fuel gas determined no less than weekly. The monthly and rolling 12-month sums for the previous month shall be determined and recorded by no later than the 25th of each month. (ARM 17.8.749).

Boiler #1
Boiler #2
Crude Unit #1 Atmospheric Heater
Crude Unit #1 Vacuum Heater
Boiler #3
Crude Unit #2 Atmospheric Heater H-2101
Crude Unit #2 Vacuum Heater H-2102

The below units are now in operation at MRL:

Combined Feed Heater H-4101
MHC Reactor Fractionation Feed Heater H-4102
#3 Hydrogen Plant Reformer A (H-3815A)
#3 Hydrogen Plant Reformer B (H-3815B)

The Combined Feed Heater H-4101, H-4102, and #3 Hydrogen Heaters operated by MRL remain part of this sitewide limit which includes CMR and MRL. The other units are units at the CMR Refinery.

- B.5. CO emissions from the following units, combined, shall not exceed 55.08 tons per year as determined monthly on a rolling 12-month basis, for purposes of PSD avoidance for CO associated with the expansion project as permitted in MAQP #2161-30. With the exception of any unit equipped with CO CEMS verified via RATA, CO emissions shall be determined utilizing emissions factors determined via monthly portable analyzer results for 12 months, after which, emissions factors shall be determined based on annual source tests. Fuel flow shall be monitored continuously, and heat content of fuel gas determined no less than weekly. The monthly and rolling 12-month sums for the previous month shall be determined and recorded by no later than the 25th of each month. (ARM 17.8.749).

Boiler #1
Boiler #2
Crude Unit #1 Atmospheric Heater
Crude Unit #1 Vacuum Heater
Boiler #3
Crude Unit #2 Atmospheric Heater H-2101
Crude Unit #2 Vacuum Heater H-2102
Combined Feed Heater H-4101
MHC Reactor Fractionation Feed Heater H-4102
#3 Hydrogen Plant Reformer A (H-3815A)

#3 Hydrogen Plant Reformer B (H-3815B)

The Combined Feed Heater H-4101, H-4102, and #3 Hydrogen Heaters operated by MRL remain part of this sitewide limit which includes MRL and CMR. The other units are units at CMR Refinery.

Compliance Demonstration

- B.6. Compliance with the plant-wide SO₂ emission limitations contained in Section III.B.1 shall be monitored using data taken from the RFG H₂S monitoring systems required by 40 CFR 60 Subpart J and Ja, in conjunction with metered RFG usage data from the FCCU SO₂ CEMS, the #1 and #2 Boiler SO₂ CEMS, and stack testing data (ARM 17.8.749 and ARM 17.8.1213). Compliance with the plant-wide SO₂ emission limitations contained in Section III.B.1 shall be monitored using data taken from the CMR Operating Permit and combining it with SO₂ emissions from MRL (ARM 17.8.1213).
- B.7. Compliance with the plant-wide CO emission limitations contained in Section III.B.2 shall be monitored based on data taken from the CMR Operating Permit and combining it with CO emissions from MRL (ARM 17.8.1213).
- B.8. For heaters and boilers with a heat input capacity of equal to or less than 100 mmBtu/hr on a higher heating value basis, MRL shall, by no later than 60 days after the date of installation of the applicable NO_x Control Technology, conduct an initial performance test and develop representative operating parameters for each unit, which will be used as indicators of compliance. (ARM 17.8.1213, Consent Decree section V.16.C.iii). DEQ will consider NO_x CEMS operated in accord with the requirements of 40 CFR 60 Subpart A and Ja as fulfilling these requirements, for any unit so equipped (ARM 17.8.1213).
- B.9. MRL Units Subject to the NO_x Umbrella Limitation of Section III.B.4:
 - a. Each unit subject to the NO_x umbrella limitation and not equipped with validated (RATA conducted) CEMS consistent with 40 CFR 60 Subpart A and Ja requirements, shall have annual Method 7E source tests (or testing as approved by DEQ). All testing shall be conducted concurrently with CO testing. Units equipped with NO_x CEMS shall conduct a RATA as required. Emissions factors in units of lb/MMBtu shall be determined from the most recent emissions testing (portable analyzer test, source test, or performance test (i.e. RATA testing), as applicable (ARM 17.8.749).
- B.10. Units Subject to CO Umbrella Limitation of Section II.B.5:
 - a. For all units operated by MRL subject to the CO Umbrella Limitation of Section II.B.5 in which a validated CO CEMS is not utilized, MRL shall test for CO currently with testing for NO_x (ARM 17.8.749). For any units equipped with NO_x CEMS but no CO CEMS, CO testing concurrent with NO_x RATA Testing is acceptable. Units equipped with CO CEMS shall conduct a RATA as required and determine lb/MMBtu emissions factors during the RATA testing (ARM 17.8.749).

Recordkeeping

- B.11. MRL shall maintain, under MRL's control, all records required for compliance monitoring as a permanent business record for at least 5 years. Furthermore, the records must be available at the plant site for inspection by DEQ and EPA and must be submitted to DEQ upon request (ARM 17.8.1212).
- B.12. By the 25th day of each month, MRL shall calculate and record the monthly and rolling 12-month sum of NO_x and CO emissions from each MRL unit subject to the umbrella limitations for the previous month. MRL shall also calculate and record, by the 25th of each month, the total monthly and rolling 12-month sum of emissions for the units combined for the previous 12 months (ARM 17.8.749 and ARM 17.8.1212).
- B.13. All source test recordkeeping shall be performed in accordance with the test methods being used and Section III.A.2 (ARM 17.8.106).
- B.14. MRL shall maintain records of all Heaters and Boilers on which Next Generation Ultra Low NO_x Control Technology as required by the Consent Decree was installed and shall include the following (ARM 17.8.1212 and Consent Decree Section V.16.F):
 - a. Type of NO_x Control Technology installed with detailed description of manufacturer name and model and designed emission factors;
 - b. A summary table of test dates, report dates, and results of all performance test conducted on each such heater and boiler;
 - c. A list of all heaters and boilers scheduled to have NO_x control Technology installed during the next calendar year, the projected date of installation, and type of NO_x Control Technology that will be installed on those units;
 - d. An identification of proposed and established permit limits applicable to each heater or boiler for which NO_x control technology has been installed.

Reporting

- B.15. Any compliance source test reports must be submitted in accordance with Section III.A.2 (ARM 17.8.106 and ARM 17.8.1212).
- B.16. MRL shall provide semiannual reports of SO₂ actual emissions compared to the emissions limitation of Section III.B.1, using the data collected as required above, that will monitor compliance with the plant-wide emission limits. The semiannual reports shall include the following (ARM 17.8.1212 and ARM 17.8.749):
 - a. Facility-wide SO₂ emission estimates for each month, including:
 - b. Compliance source test data used to update emission factors, conducted during the reporting period;

- c. Identification of any periods of excess emissions or other excursions during the reporting period;
 - d. Monitoring downtime that occurred during the reporting period;
- B.17. MRL shall provide semiannual reports of CO actual emissions compared to the emissions limitation of Section III.B.2 (ARM 17.8.1212, ARM 17.8.1213).
- B.18. In accordance to the Consent Decree Paragraph IX, MRL shall, within 30 days after the end of each calendar quarter until termination of the Consent Decree, provide a progress report to contain the implementation of the requirements of Section V, a summary of the emissions data as required by Section V, a description of any problems anticipated with respect to meeting the requirements of Section V, a description of all environmentally beneficial project and implementation activity in accordance with Paragraphs 29-33, and any additional items as necessary (ARM 17.8.1211 and Consent Decree Paragraph IX).
- B.19. MRL shall report monthly and rolling 12-month sums for each MRL unit under the NO_x and CO Umbrella limitations on a semiannual basis. The report shall include the emissions factor and/or measurement methodology used and monthly and rolling 12-month sums for each unit, and as a sum of all units (ARM 17.8.1213, and ARM 17.8.749 and ARM 17.8.1212).
- B.20. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1213).
- B.21. The semiannual monitoring report shall clearly identify all deviations from permit requirements and shall provide (ARM 17.8.1212(3)):
 - a. Reference to the dates quarterly reports required by this section were submitted.
 - b. The NO_x reduction technology records required by Section III.B.14, if any updates to those records were made during the semi-annual reporting period; otherwise, reference to the date these records were last submitted.

C. Hydrogen Plant #3 (15 MMSCFD)

#3 H₂ Plant Heater A: H-3815A

#3 H₂ Plant Heater B: H-3815B

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Method	Demonstration Frequency	Reporting Requirements
C.1, C.10, C.20, C.30, C.31	#3 H ₂ Plant Capacity	67 MMBtu/hr each heater	Recordkeeping	Ongoing	Semiannual
C.2, C.11, C.30, C.31	NO _x and CO Umbrella Limit: #3 Hydrogen Plant:	Section III.B.4 and III.B.5	NO _x and CO Source Testing, NO _x CEMS Annual NO _x CEMS RATA	NO _x : Source Testing once every 3 years from last NO _x Source Test CO: Source testing once every 3 years from last CO source test concurrent with NO _x Testing	Semiannual and Section III.A.2
C.3, C.12, C.18, C.30, C.31	#3 H ₂ Plant Heaters NO _x	0.051 lb/MMBtu (HHV), 30-day rolling average 0.080 lb/MMBtu (3- hour rolling average (HHV) ULNB	NO _x CEMS and O ₂ Analyzer	Continuous, Source Testing every 3 years from last NO _x Source Test	Semiannual
C.4, C.13, C.30, C.31	#3 H ₂ Plant Heaters PM, PM ₁₀ , and PM _{2.5}	PM (filt): 0.00051 lb/MMBtu (HHV) PM ₁₀ (Total): 0.00051 lb/MMBtu (HHV) PM _{2.5} (Total) 0.00042 lb/MMBtu (HHV)	Good Combustion practices. Recordkeeping and Method 201a and 202	As required by DEQ and Section III.A.1	Semiannual and Section III.A.2

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method	Frequency	Reporting Requirements
C.5, C.14, C.30, C.31	#3 H ₂ Plant CO	0.03 lb/MMBtu (HHV) 1-hour average OR 17.6 tpy rolling 12-month average	Source Test once every 3 years from last CO source test concurrent with NO _x Testing	Continuous	Semiannual
C.6, C.15, C.30, C.31	#3 H ₂ Plant Opacity	20% over 6 Minutes	Method 9	As required by the Department, and Section III.A.1	Semiannual
C.7, C.16, C.30, C.31	#3 H ₂ Plant Heaters Fuel Type	Only burn natural gas and PSA off-gas	Recordkeeping	Ongoing	Semiannual
C.8, C.17, C.25, C.30, C.31	Various	40 CFR 60.13- 60.19, 40 CFR 60 Appendices B and F	40 CFR 60.13 40 CFR 60 Appendix B and F	Ongoing	Semiannual
C.9, C.19, C.30, C.31	HAPS from Process Heaters	CFR 63 Subpart DDDDD	CFR 63 Subpart DDDDD	40 CFR 63 Subpart DDDDD	Semiannual and 40 CFR 63 Subpart DDDDD

Conditions

- C.1. The annual average firing rate of each heater (H-3815A and H-3815B) shall not exceed 67.0 MMBtu/hr (HHV) (ARM 17.8.749).
- C.2. MRL shall comply with the NO_x and CO Umbrella limits of Section III.B.4 and III.B.5. The #3 Hydrogen Plant H-3815A and B heaters are affected units at MRL. (ARM 17.8.749 and ARM 17.8.1211).
- C.3. NO_x emissions from H-3815A and H-3815B shall be controlled by an ULNB and the combined NO_x emissions from the two heaters shall not exceed:
- 0.051 lb/MMBtu (HHV) on a 30-day rolling average basis and monitored via CEMS including an O₂ analyzer and NO_x analyzer. (ARM 17.8.752 and ARM 17.8.749).
- C.4. MRL shall control PM (filterable), PM₁₀ (filterable plus condensable) and PM_{2.5} (filterable plus condensable) emissions from H-3815A and H-3815B by utilizing good combustion practices and only combusting low sulfur fuels (ARM 17.8.752 and ARM 17.8.749):
- a. PM (filterable) emissions shall not exceed 0.00051 lb/MMBtu (HHV) on a 1-hour average.
 - b. PM₁₀ (filterable plus condensable) emissions shall not exceed 0.00051 lb/MMBtu (HHV) on a 1-hour average.

- c. PM_{2.5} (filterable plus condensable) emissions shall not exceed 0.00042 lb/MMBtu (HHV) on a 1-hour average.
- C.5. MRL shall control CO emissions using good combustion practices and CO emissions shall not exceed 0.03 lb/MMBtu (HHV) on a 1-hour average OR 17.6 tons per year based on a 12-month rolling average for H-3815A and H-3815B (ARM 17.8.752 and ARM 17.8.749).
- C.6. Opacity shall not exceed 20% averaged over any 6 consecutive minutes for H-3815A and H-3815B (ARM 17.8.304 and ARM 17.8.749).
- C.7. H-3815A and H-3815B shall only combust natural gas and PSA off-gas, which are inherently low sulfur fuels. These units are specifically not allowed to burn fuel oil (ARM 17.8.749 and ARM 17.8.1211)).
- C.8. MRL shall comply with all applicable requirements of 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.340)
- C.9. MRL shall comply with all applicable requirements of 40 CFR 63 Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, including as applicable to #3 Hydrogen Plant Heater, “gas category 1” process heaters (ARM 17.8.1211, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).

Compliance Demonstration

- C.10. MRL shall continuously monitor the firing rates of H-3815A and H-3815B to demonstrate compliance with III.C.1 (ARM 17.8.1213).
- C.11. MRL shall total the NOx emissions from CMR along with the total from MRL to comply with the NOx and CO Umbrella limits referenced in Section III.C.2 (ARM 17.8.1213).
- C.12. MRL shall demonstrate compliance with the NOx limit in Section using the NOx CEMS MRL shall demonstrate compliance with the NOx limit in Section III.C.3 using the NOx CEMS and firing rate information required by Section III.C.1. H-3815A and H-3815B were tested for CO and NOx concurrently after startup in the common stack, and the results submitted to the Department in order to demonstrate compliance with the emission limits contained in Section II.C.2. Test procedures used were EPA Reference Methods 10 and 7E or equivalent, as approved by the Department. MRL shall conduct an annual NOx RATA following 40 CFR 60 Appendices B and F. MRL shall conduct NOx source testing once every three years from the date of the last NOx source test (ARM 17.8.105, ARM 17.8.106 and ARM 17.8.1213).
- C.13. As required by DEQ and Section III.A.1, MRL shall test the H-3815A and H-3815B heaters for PM, PM₁₀ and PM_{2.5} utilizing Methods 201A and 202 (ARM 17.8.105 and ARM 17.8.1213).
- C.14. MRL shall conduct CO testing once every three years on H-3815A and H-3815B. MRL shall conduct the CO testing concurrent with the NOx Source testing, to monitor compliance

with the CO emissions limitation of Section III.C.5. MRL shall utilize fuel usage and fuel Btu content for determining the lb/MMBtu emissions. MRL shall demonstrate compliance with the CO limit in Section III.C.5 using the most recent test results. To monitor compliance with the CO emissions limitation MRL shall utilize firing rate information required by Section III.C.1, and CO test results from the most recent test results. (ARM 17.8.105, 17.8.106 and ARM 17.8.1213).

- C.15. As required by the Department and Section III.A.1, compliance with the opacity limitation listed in Section III.C.6 shall be monitored using EPA reference Method 9 testing by a qualified observer (ARM 17.8.1213).
- C.16. MRL shall maintain a record of the type(s) of fuel burned in H-3815A and H-3815B to demonstrate compliance in Section III.C.7 ARM 17.8.1213).
- C.17. MRL shall demonstrate compliance by meeting the applicable requirements of 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1213).
- C.18. #3 Hydrogen Plant Heaters H-3815A and H-3815B shall be equipped with NO_x CEMS consistent with requirements in 40 CFR 60 Subpart A and Ja (ARM 17.8.749 and ARM 17.8.1213).
- C.19. MRL shall monitor compliance with 40 CFR 63 Subpart DDDDD as required by 40 CFR 63 Subpart DDDDD (ARM 17.8.1213, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).

Recordkeeping

- C.20. MRL shall maintain, under MRL's control, all records required for compliance monitoring as a permanent business record for at least 5 years. Furthermore, the records must be available at the plant site for inspection by DEQ and must be submitted to DEQ upon request (ARM 17.8.1212).
- C.21. All source test recordkeeping shall be performed in accordance with the test method being used and Section III.A.2 (ARM 17.8.106).
- C.22. MRL shall provide reporting as required under 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1212).
- C.23. MRL shall maintain records as required by 40 CFR 63 Subpart DDDDD (ARM 17.8.1212)
- C.24. MRL shall comply with the NO_x and CO Umbrella limit related recordkeeping requirements of Section III.B.12 (ARM 17.8.1212).
- C.25. MRL shall demonstrate compliance by meeting the applicable requirements of 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1213).
- C.26. MRL shall comply with all applicable recordkeeping requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, AM 17.8.302, and 40 CFR 63 Subpart DDDDD).

Reporting

- C.27. No less than semiannually, MRL shall submit a CEMS performance and excess emissions report for NO_x emissions from the #3 Hydrogen Plant heaters, in format equivalent to as submitted for NSPS Ja. Additionally, daily 30-day averages shall be submitted for days in which any excess emissions occurred (ARM 17.8.1212 and ARM 17.8.1213).
- C.28. MRL shall comply with the NO_x and CO Umbrella limit reporting requirements of Section III.B.19 (ARM 17.8.1212).
- C.29. MRL shall comply with all applicable reporting requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302 and 40 CFR 63 Subpart DDDDD).
- C.30. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.
- C.31. The semiannual monitoring report shall clearly identify all deviations from permit requirements and shall provide (ARM 17.8.1212):
- summary of Hydrogen Plant #3 NO_x and CO emissions as applicable
 - a summary of any source testing that was performed during the reporting period including date testing was performed, result of the test, and date the report was submitted or estimated to be submitted;
 - summary demonstrating compliance with 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F;
 - summary demonstrating compliance status with 40 CFR 63 Subpart DDDDD including reference to submittal dates or reports made or included.

D. Hydrogen Plant #4

#4 H₂ Plant Heater H-4601 (formerly H-4801)

#4 H₂ Plant Fugitive Components (Covered in Section III.G)

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Method	Demonstration Frequency	Reporting Requirements
D.1, D.12, D.23, D.30	Heater H-4601 Annual Capacity	213 MMBtu/hr (HHV)	Monitoring and Recordkeeping	Continuous	Semiannual
D.2, D.13, D.19, D.23, D.24, D.27, D.30, D.31	Heater H-4601 NO _x	0.04 lb/MMBTU (HHV) on a 30-day rolling average ULNB	NO _x and CO Source Testing, NO _x CEMS Annual NO _x CEMS RATA	Continuous NO _x : Source Testing once every 3 years from last NO _x Source Test CO: Source testing once every 3 years from last CO source test	Semiannual and Section III.A.2

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Method	Demonstration Frequency	Reporting Requirements
				concurrent with NOx Testing	
D.3, D.13, D.14, D.23, D.24, D.30, D.31	Heater H-4601 CO	0.03 lb/MMBtu (HHV) on a 1- hour average	Source Test once every 3 years from last CO source test concurrent with NOx Testing, Oxygen Monitoring and Combustion Practices	Continuous	Semiannual
D.4, D.15, D.23, D.30	Heater H-4601 Particulate Matter	Oxygen Monitoring and Good Combustion Practices	Monitoring and Recordkeeping	Continuous	Semiannual
D.5, D.16, D.23, D.30	Heater H-4601 H ₂ S	Not combust PSA off-gas fuel containing H ₂ S in excess of 30 ppmv. 10 ppmv on an annual basis	H ₂ S Monitoring of the PSA gas once per week, Recordkeeping	Ongoing	Semiannual
D.6, D.17, D.23, D.30	Heater H-4601 H ₂ S	Not combust RDU off-gas fuel containing H ₂ S in excess of 30 ppmv. 10 ppmv on annual basis.	H ₂ S Monitoring of the RDU gas once per week, Recordkeeping	Ongoing	Semiannual
D.7, D.15, D.23, D.30	Heater H-4601 VOCs	Oxygen Monitoring Good Combustion Practices	Recordkeeping	Ongoing	Semiannual
D.8, D.18, D.23, D.25, D.28, D.30, D.31	40 CFR 60.13- 60.19, and 40 CFR 60 Appendices B and F	40 CFR 60.13- 60.19, and 40 CFR 60 Appendices B and F	40 CFR 60.13- 60.19, and 40 CFR 60 Appendices B and F	40 CFR 60.13- 60.19, and 40 CFR 60 Appendices B and F	40 CFR 60.13- 60.19, and 40 CFR 60 Appendices B and F
D.9, D.20, D.23, D.26, D.29, D.30, D.31	HAPS from Process Heaters	40 CFR 63 Subpart DDDDD	40 CFR 63 Subpart DDDDD	40 CFR 63 Subpart DDDDD	40 CFR 63 Subpart DDDDD
D.10, D.21, D.23, D.30	H-4601 Fuel Type	Only combust natural gas, PSA off-gas	Recordkeeping	Ongoing	Semiannual

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method	Frequency	Reporting Requirements
		and RDU off-gas			
D.11, D.22, D.23, D.24, D.30	H-4601 Opacity	20% over 6 Minutes	Method 9	Continuous	Semiannual

Conditions

- D.1. The annual average firing rate of H-4601 shall not exceed 213 MMBtu/hr (HHV) (ARM 17.8.749 and ARM 17.8.1211).
- D.2. NO_x emissions shall be controlled by an ULNB and shall not exceed 0.04 lb/MMBtu (HHV) on a 30-day rolling average basis and monitored via CEMS including an O₂ analyzer and NO_x analyzer (ARM 17.8.752, 17.8.749 and ARM 17.8.1211).
- D.3. MRL shall use good combustion practices and a continuous oxygen monitoring system to control CO emissions which may not exceed 0.03 lb/MMBtu (HHV) on a 1-hour average (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211).
- D.4. MRL shall utilize an oxygen monitoring system and good combustion practices to minimize PM (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211).
- D.5. H-4601 shall not combust PSA off-gas fuel containing H₂S in excess of 30 ppmv. Additionally, the heater shall not combust PSA off-gas fuel containing H₂S in excess of 10 ppmv on an annual average basis (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211).
- D.6. H-4601 shall not combust RDU off-gas fuel containing H₂S in excess of 30 ppmv. Additionally, the heater shall not combust RDU off-gas in fuel containing H₂S in excess of 10 ppmv on an annual average basis (ARM 17.8.749, ARM 17.8.752 and ARM 17.8.1211).
- D.7. MRL shall utilize an oxygen monitoring system and good combustion practices to minimize VOCs (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211).
- D.8. MRL shall comply with all applicable requirements of 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.340).
- D.9. MRL shall comply with 40 CFR 63 Subpart DDDDD which requires the process heater to undergo a tune-up every five years, as specified in 40 CFR 63.7540 (40 CFR 63, Subpart DDDDD, ARM 17.8.342, ARM 17.8.749 and ARM 17.8.1211).
- D.10. H-4801 shall only combust natural gas, PSA off-gas and RDU off-gas (ARM 17.8.749 and ARM 17.8.1211).
- D.11. Opacity shall not exceed 20% averaged over any 6 consecutive minutes (ARM 17.8.304 and ARM 17.8.1211).

Compliance Demonstration

- D.12. MRL shall continuously monitor the firing rate of H-4601 to demonstrate compliance with Section III.D.1 (ARM 17.8.1213).
- D.13. MRL shall demonstrate compliance with the NO_x limit in Section III.D.2 using the NO_x CEMS and firing rate information required by Section III.D.1. H-4601 was tested for CO and NO_x concurrently after startup, and the results submitted to the Department in order to demonstrate compliance with the emission limits contained in Section II.D.2. Test procedures used were EPA Reference Methods 10 and 7E or equivalent, as approved by the Department. MRL shall conduct an annual NO_x RATA following 40 CFR 60 Appendices B and F. MRL shall conduct NO_x source testing once every three years from the date of the last NO_x source test (ARM 17.8.105, ARM 17.8.106 and ARM 17.8.1213).
- D.14. MRL shall conduct CO testing once every three years on H-4601. MRL shall conduct the CO testing concurrent with the NO_x Source testing, to monitor compliance with the CO emissions limitation of Section III.D.3. MRL shall utilize fuel usage and fuel Btu content for determining the lb/MMBtu emissions. MRL shall demonstrate compliance with the CO limit in Section III.D.3 using the most recent test results. To monitor compliance with the CO emissions limitation MRL shall utilize firing rate information required by Section III. D.1, and CO test results from the most recent test results. (ARM 17.8.105, 17.8.106 and ARM 17.8.1213).
- D.15. As required by DEQ and Section III.D.4 and Section III.D.7, for minimizing PM and VOC emissions MRL shall provide records of maintenance activities for maintaining the oxygen control system and for following good combustion control practices (ARM 17.8.105 and ARM 17.8.1213).
- D.16. As required by DEQ and Section III.D.5, MRL shall provide records of weekly sampling and testing for H₂S concentration to allow a calculation for an annual average concentration (ARM 17.8.105 and ARM 17.8.1213).
- D.17. As required by DEQ and Section III.D.6, MRL shall provide records of weekly sampling and testing for H₂S concentration to allow for calculation for an annual average concentration (ARM 17.8.105 and ARM 17.8.1213).
- D.18. MRL shall demonstrate compliance by meeting the applicable requirements of 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1213).
- D.19. H-4601 shall be equipped with NO_x CEMS consistent with requirements in 40 CFR 60 Subpart A and Ja (ARM 17.8.749 and ARM 17.8.1213).
- D.20. MRL shall monitor compliance with 40 CFR 63 Subpart DDDDD as required by 40 CFR 63 Subpart DDDDD (ARM 17.8.1213, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).
- D.21. MRL shall maintain a record of the type(s) of fuel burned in H-4601 to demonstrate compliance with Section III.D.10 (ARM 17.8.1213).

- D.22. As required by the Department and Section III.A.1, compliance with the opacity limitation listed in Section III.D.11 shall be monitored using EPA reference Method 9 testing by a qualified observer (ARM 17.8.1213).

Recordkeeping

- D.23. MRL shall maintain, under MRL's control, all records required for compliance monitoring as a permanent business record for at least 5 years. Furthermore, the records must be available at the plant site for inspection by DEQ and must be submitted to DEQ upon request (ARM 17.8.1212).
- D.24. All source test recordkeeping shall be performed in accordance with the test method being used and Section III.A.2 (ARM 17.8.106).
- D.25. MRL shall provide reporting as required under 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1212).
- D.26. MRL shall comply with all applicable recordkeeping requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, AM 17.8.302, and 40 CFR 63 Subpart DDDDD).

Reporting

- D.27. Not less than semiannually, MRL shall submit a CEMS performance and excess emissions report for NO_x emissions from the H-4601 Heater. The report shall be submitted in a format equivalent to that submitted for NSPS Ja. Additionally, daily 30-day averages shall be submitted for days in which any excess emissions occurred (ARM 17.8.1212).
- D.28. MRL shall provide reporting as required under 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1212).
- D.29. MRL shall comply with all applicable reporting requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302 and 40 CFR 63 Subpart DDDDD).
- D.30. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.
- D.31. The semiannual monitoring report shall clearly identify all deviations from permit requirements and shall provide (ARM 17.8.1212):
- a. summary of H-4601 NO_x and CO emissions as applicable;
 - b. a summary of any source testing that was performed during the reporting period including date testing was performed, result of the test, and date the report was submitted or estimated to be submitted;
 - c. summary demonstrating compliance with 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F;
 - d. summary demonstrating compliance status with 40 CFR 63 Subpart DDDDD including reference to submittal dates or reports made or included.

E. Renewable Diesel Unit (RDU) Heaters-EU001 and EU011

RDU Heater H-4101

RDU Heater-H-4102

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Method	Demonstration Frequency	Reporting Requirements
E.1, E.14, E.28, E.35, E.36, E.37	H-4101 and H- 4102 Annual Capacity	H-4101: 54.0 MMBtu/hr (HHV) H-4102: 38.0 MMBtu/hr (HHV)	Recordkeeping	Ongoing	Semiannual
E.2, E.15, E.26, E.28, E.30, E.33, E.36, E.37	H-4101 NO _x	0.035 lb/MMBtu 30- day rolling average (HHV) 0.046 lb/MMBtu 3- hour rolling average (HHV)	NO _x and CO Source Testing, NO _x CEMS Annual NO _x CEMS RATA	Continuous NO _x : Source Testing once every 3 years from last NO _x Source Test CO: Source testing once every 3 years from last CO source test concurrent with NO _x Testing	Semiannual
E.3, E.16, E.28, E.30, E.36, E.37	H-4102 NO _x	0.040 lb/MMBtu (HHV) 1-hour average	Method 7E	Once Every Three Years	Semiannual and Section III.A.2
E.4, E.17, E.28, E.30, E.36, E.37	H-4101 and H- 4102 CO	0.055 lb/MMBtu (HHV) 1-hour rolling average	Source Test	Once Every Three Years	As required by DEQ and Section III.A.2
E.5, E.18, E.28, E.29, E.36, E.37	H-4101 and H- 4102: NO _x and CO Umbrella Limit Affected Units	Section III.B.4 and III.B.5	H-4101 CEMS H-4102 Firing Rate and Most Recent Source Tests	Ongoing	Semiannual
E.6, E.19, E.28, E.30, E.36, E.37	H-4101 and H- 4102 PM/PM ₁₀ , and PM _{2.5}	PM and PM ₁₀ : (filt) 0.00051 lb/MMBtu (HHV) PM _{2.5} : (filt plus condensable) 0.00042 lb/MMBtu (HHV)	Source Test	As required by DEQ and Section III.A.1	As required by DEQ and Section III.A.2

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Method	Demonstration Frequency	Reporting Requirements
E.7, E.20, E.28, E.36, E.37	H-4101 and H-4102 Particulate Matter	Oxygen Monitoring and Good Combustion Practices	Monitoring and Recordkeeping	Continuous	Semiannual
E.8, E.21, E.28, E.36, E.37	H-4101 and H-4102 VOCs	Oxygen Monitoring Good Combustion Practices	Recordkeeping	Ongoing	Semiannual
E.9, E.22, E.28, E.31, E.34, E.36, E.37	40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F	40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F	40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F	40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F	40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F
E.10, E.23, E.28, E.32, E.35, E.36, E.37	MACT DDDDD: HAPs from H-4101 and H-4102	40 CFR 63 Subpart DDDDD	40 CFR 63 Subpart DDDDD	40 CFR 63 Subpart DDDDD	Semiannual and 40 CFR 63 Subpart DDDDD
E.11, E.24, E.28, E.36, E.37	H-4101 and H-4102	Only burn natural gas and RDU off-gas	Recordkeeping	Ongoing	Semiannual
E.12, E.25, E.28, E.36, E.37	Heater H-4101 and H-4102 H ₂ S	Not combust RDU off-gas fuel containing H ₂ S in excess of 30 ppmv. 10 ppmv on an annual basis.	H ₂ S Monitoring of the RDU gas once per week, Recordkeeping	Ongoing	Semiannual
E.13, E.27, E.28, E.30, E.36, E.37	H-4101 and H-4102 Opacity	20% over 6 Minutes	Method 9	Continuous	Semiannual

Conditions

- E.1. The annual average firing rate of H-4101 and H-4102 shall not exceed 54.0 and 38.0 MMBtu/hr (HHV), respectively (ARM 17.8.1211 and ARM 17.8.749).
- E.2. H-4101 shall be equipped with ULNB, and NO_x CEMS with O₂ analyzer and NO_x emissions shall not exceed:
- 0.035 lb/MMBtu-HHV based on a 30-day rolling average (ARM 17.8.1211, ARM 17.8.749 and ARM 17.8.752).
 - 0.046 lb/MMBtu- HHV, 3-hour rolling average (ARM 17.8.1211).
- E.3. H-4102 shall be equipped with ULNB and NO_x emissions shall not exceed 0.04 lb/MMBtu-HHV based on a 1-hour average (ARM 17.8.1211, ARM 17.8.752).

- E.4. CO emissions from the H-4101 and H-4102 shall not exceed 0.055 lb/MMBtu-HHV on a 1-hr rolling average (ARM 17.8.749, ARM 17.8.1211 and 17.8.752).
- E.5. MRL shall comply with the NO_x and CO Umbrella Limitations of Section III.B.4 and III.B.5. The H-4101 and H-4102 heaters are affected units (ARM 17.8.1211 and ARM 17.8.749).
- E.6. MRL shall control PM, PM₁₀, and PM_{2.5} emissions from each heater by utilizing good combustion practices and only combusting low sulfur fuels. Particulate emissions from the H-4101 and H-4102 shall not exceed the following (ARM 17.8.752):
- a. PM (filt) and PM₁₀ (filt) emissions: 0.00051 lb/MMBtu (HHV)
 - b. PM_{2.5} (filt plus condensable) emissions: 0.00042 lb/MMBtu (HHV)
- E.7. MRL shall utilize an oxygen monitoring system and good combustion practices to minimize PM for H-4101 and H-4102 (ARM 17.8.752 and ARM 17.8.749).
- E.8. MRL shall utilize an oxygen monitoring system and good combustion practices to minimize volatile organic compounds for H-4101 and H-4102 (VOCs) (ARM 17.8.752 and ARM 17.8.749).
- E.9. MRL shall demonstrate compliance by meeting the applicable requirements of 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1213).
- E.10. MRL shall comply with all applicable requirements of 40 CFR 63 Subpart DDDDD, as applicable to the H-4101 and H-4102 (ARM 17.08.1211, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).
- E.11. H-4101 and H-4102 shall only combust natural gas and RDU off-gas (ARM 17.8.749 and ARM 17.8.1211). H-4101 is specifically not allowed to burn fuel oil (ARM 17.8.1211).
- E.12. H-4101 and H-4102 shall not combust RDU off-gas fuel containing H₂S in excess of 30 ppmv. Additionally, the heater shall not combust RDU off-gas fuel containing H₂S in excess of 10 ppmv on an annual average basis (ARM 17.8.749 and ARM 17.8.1211).
- E.13. Opacity shall not exceed 20% averaged over any 6 consecutive minutes for H-4101 and H-4102 (ARM 17.8.304).

Compliance Demonstration

- E.14. MRL shall continuously monitor the firing rate of H-4101 and H-4102 and calculate the annual average to demonstrate compliance with Section III.E.1 (ARM 17.8.1213).
- E.15. MRL shall demonstrate compliance with the NO_x limit in Section III.E.2 for H-4101 using the NO_x CEMS and firing rate information required by Section III.E.1 H-4101 was tested for CO and NO_x concurrently after startup, and the results submitted to the Department in order to demonstrate compliance with the emission limits contained in Section III.E.2. Test procedures used were EPA Reference Methods 10 and 7E or equivalent, as approved by the

Department. MRL shall demonstrate compliance with the NO_x limits using the NO_x CEMS. MRL shall conduct an annual NO_x RATA following 40 CFR 60 Appendices B and F. MRL shall conduct NO_x source testing for H-4101 once every three years from the date of the last NO_x source test (ARM 17.8.105, ARM 17.8.106 and ARM 17.8.1213).

- E.16. MRL shall demonstrate compliance with the NO_x limit in Section III.E.3 using the most recent Source Test results and firing rate information required by Section III.E.1 H-H-4102 was tested for CO and NO_x concurrently after startup, and the results submitted to the Department in order to demonstrate compliance with the emission limits contained in Section III.E.3. Test procedures used were EPA Reference Methods 10 and 7E or equivalent, as approved by the Department. MRL shall conduct NO_x source testing for H-4102 once every three years from the date of the last NO_x source test (ARM 17.8.105, ARM 17.8.106 and ARM 17.8.1213).
- E.17. MRL shall conduct CO testing once every three years on H-4101 and H-4102. MRL shall conduct the CO testing concurrent with the NO_x Source testing, to monitor compliance with the CO emissions limitation of Section III.E.2 and Section III.E.3. MRL shall utilize fuel usage and fuel Btu content for determining the lb/MMBtu emissions. MRL shall demonstrate compliance with the CO limit using the most recent test results. To monitor compliance with the CO emissions limitation MRL shall utilize firing rate information required by Section III. E.1, and CO test results from the most recent test results. (ARM 17.8.105, 17.8.106 and ARM 17.8.1213).
- E.18. MRL shall total the NO_x emissions from CMR along with the total from MRL to comply with the NO_x and CO Umbrella limits referenced in Section III.E.5 (ARM 17.8.1213).
- E.19. As required by DEQ and Section III.E.6, MRL shall test the H-4101 and H-4102 for PM, PM₁₀ and PM_{2.5} utilizing Methods 201A and 202 (ARM 17.8.105 and ARM 17.8.1213).
- E.20. As required by DEQ and Section III.E.7, for minimizing PM emission MRL shall provide records of maintenance activities for maintaining the oxygen control system and for following good combustion control practices (ARM 17.8.105 and ARM 17.8.1213).
- E.21. As required by DEQ and Section III.E.8, for minimizing VOCs MRL shall provide records of maintenance activities for maintaining the oxygen control system and for following good combustion control practices (ARM 17.8.105 and ARM 17.8.1213).
- E.22. MRL shall demonstrate compliance by meeting the applicable requirements of 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1213).
- E.23. MRL shall monitor compliance with 40 CFR 63 Subpart DDDDD as required by 40 CFR 63 Subpart DDDDD (ARM 17.8.1213, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).
- E.24. MRL shall maintain a record of the type(s) of fuel burned in H-4101 and H-4102 to demonstrate compliance in Section III.E.11 (ARM 17.8.1213).

- E.25. As required by DEQ and Section III.E.12, MRL shall provide records of weekly sampling and testing for H₂S concentration to allow a calculation for an annual average concentration (ARM 17.8.105 and ARM 17.8.1213).
- E.26. H-4101 shall be equipped with NO_x CEMS consistent with requirements in 40 CFR 60 Subpart A and Ja (ARM 17.8.749 and ARM 17.8.1213).
- E.27. As required by the Department and Section III.A.1, compliance with the opacity limitation listed in Section III.D.11 shall be monitored using EPA reference Method 9 testing by a qualified observer (ARM 17.8.1213).

Recordkeeping

- E.28. MRL shall maintain, under MRL's control, all records required for compliance monitoring as a permanent business record for at least 5 years. Furthermore, the records must be available at the plant site for inspection by DEQ and must be submitted to DEQ upon request (ARM 17.8.1212).
- E.29. MRL shall comply with the NO_x and CO Umbrella limit recordkeeping requirement of Section III.B.12 for H-4101 and H-4102 (ARM 17.8.1212).
- E.30. All source test recordkeeping shall be performed in accordance with the test method being used and Section III.A.2 (ARM 17.8.106).
- E.31. MRL shall provide reporting as required under 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1212).
- E.32. MRL shall comply with all applicable recordkeeping requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, AM 17.8.302, and 40 CFR 63 Subpart DDDDD).

Reporting

- E.33. No less than semiannually, MRL shall submit a CEMS performance and excess emissions report for NO_x emissions from H-4101, in format equivalent to as submitted for NSPS Ja. Additionally, daily 30-day averages shall be submitted for days in which any excess emissions occurred (ARM 17.8.1212).
- E.34. MRL shall provide reporting as required under 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F (ARM 17.8.749 and ARM 17.8.1212).
- E.35. MRL shall comply with all applicable reporting requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302 and 40 CFR 63 Subpart DDDDD).
- E.36. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.

- E.37. The semiannual monitoring report shall clearly identify all deviations from permit requirements and shall provide (ARM 17.8.1212):
- summary of H-4101 and H-4102 NO_x and CO emissions as applicable
 - a summary of any source testing that was performed during the reporting period including date testing was performed, result of the test, and date the report was submitted or estimated to be submitted;
 - summary demonstrating compliance with 40 CFR 60.13-60.19, and 40 CFR 60 Appendices B and F:
 - summary demonstrating compliance status with 40 CFR 63 Subpart DDDDD including reference to submittal dates or reports made or included.

F. Hot Oil Heater H-4201- EU012 (Part of PTU)

H-4201

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method Frequency		Reporting Requirements
F.1, F.9, F.16, F.20	H-4201 Annual Capacity	H-4201: 38 MMBtu/hr (HHV)	Recordkeeping	Ongoing	Semiannual
F.2, F.10, F.16, F.17, F.20, F.21	H-4201 NO _x	0.020 lb/MMBtu (HHV) 1-hour average	UNLB Air Fuel Ratio Controller, Method 7E	Continuous , As required by DEQ	Semiannual and Section III.A.2
F.3, F.10, F.16, F.17, F.20, F.21	H-4201 CO	0.04 lb/MMBtu (HHV) 1-Hour average	Air Fuel Ratio Controller, Method 10	Continuous , As required by DEQ	As required by DEQ and Section III.A.2
F.4, F.11, F.16, F.20	H-4201 Particulate Matter	Oxygen Monitoring and Good Combustion Practices	Monitoring and Recordkeeping	Continuous	Semiannual
F.5, F.12, F.16, F.20	H-4201 VOCs	Oxygen Monitoring and Good Combustion Practices	Monitoring and Recordkeeping	Continuous	Semiannual
F.6, F.13, F.18, F.19, F.20, F.21	MACT DDDDD: VOC and CO	Work practice standards under 40 CFR 63 Subpart DDDDD	Work practice standards under 40 CFR 63 Subpart DDDDD	Work practice standards under 40 CFR 63 Subpart DDDDD	Semiannual and 40 CFR 63 Subpart DDDDD

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
F.7, F.14, F.16, F.20	H-4201 Fuel	Only burn pipeline quality natural gas	Recordkeeping	Ongoing	Semiannual
F.8, F.15, F.16, F.20, F.21	H-4201 Opacity	20% over 6 Minutes	Method 9	Continuous	Semiannual

Conditions

- F.1. The annual average firing rate of the H-4201 shall not exceed 38.0 MMBtu/hr (HHV) (ARM 17.8.1211 and ARM 17.8.749).
- F.2. H-4201 shall be equipped with ULNB, and NO_x emissions shall not exceed:
- 0.02 lb/MMBtu-HHV based on a 1-hour average (ARM 17.8.1211, ARM 17.8.749 and ARM 17.8.752).
 - 0.046 lb/MMBtu- HHV, 3-hour rolling average (ARM 17.8.1211).
- F.3. CO emissions from the H-4201 shall not exceed 0.04 lb/MMBtu on a 1-hour average (ARM 17.8.749, ARM 17.8.1211 and 17.8.752).
- F.4. MRL shall minimize PM, PM₁₀, and PM_{2.5} emissions by utilizing good combustion practices and an oxygen system (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211):
- F.5. MRL shall minimize VOC emissions by utilizing good combustion practices and an oxygen system (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211):
- F.6. MRL shall conduct the work practice standards for minimizing CO and VOCs required under 40 CFR 63 Subpart DDDDD (ARM 17.08.1211, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).
- F.7. H-4201 shall only combust pipeline quality natural gas which is inherently low in sulfur (ARM 17.8.749, ARM 17.8.752 and ARM 17.8.1211).
- F.8. Opacity shall not exceed 20% averaged over any 6 consecutive minutes for H-4201 (ARM 17.8.304).

Compliance Demonstration

- F.9. MRL shall continuously monitor the firing rate of H-4201 and calculate the annual average to demonstrate compliance with Section III.F.1 (ARM 17.8.1213).
- F.10. MRL shall conduct performance source testing for NO_x and CO, concurrently for H-4201 as required by the Department and Section III.A.1 H-4201 was tested for CO and NO_x concurrently after startup, and the results submitted to the Department in order to demonstrate compliance with the emission limits contained in Section III.F.2. Test procedures used were EPA Reference Methods 10 and 7E or equivalent, as approved by the

Department. For future NO_x compliance demonstrations, MRL shall install an air fuel ratio controller on H-4201 that includes oxygen monitoring. Oxygen operational set points shall follow the manufacturer recommended settings unless demonstrated by any future stack testing. (ARM 17.8.105, 17.8.106 and ARM 17.8.1213).

- F.11. As required by DEQ and Section III.F.4, for minimizing PM emission MRL shall provide records of maintenance activities for maintaining the oxygen control system and for following good combustion control practices (ARM 17.8.105 and ARM 17.8.1213).
- F.12. As required by DEQ and Section III.F.5, for minimizing VOC emission MRL shall provide records of maintenance activities for maintaining the oxygen control system and for following good combustion control practices (ARM 17.8.105 and ARM 17.8.1213).
- F.13. MRL shall monitor compliance with the work practice standards for CO and VOCs under 40 CFR 63 Subpart DDDDD (ARM 17.8.1213, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).
- F.14. MRL shall maintain a record of the type(s) of fuel burned in H-4201 to demonstrate compliance in Section III.F.7 (ARM 17.8.1213).
- F.15. As required by DEQ and Section III.A.1, compliance with the opacity limitation listed in Section III.D.1 shall be monitored using EPA reference Method 9 testing by a qualified observer (ARM 17.8.1213).

Recordkeeping

- F.16. MRL shall maintain, under MRL's control, all records required for compliance monitoring as a permanent business record for at least 5 years. Furthermore, the records must be available at the plant site for inspection by DEQ and must be submitted to DEQ upon request (ARM 17.8.1212).
- F.17. All source test recordkeeping shall be performed in accordance with the test method being used and Section III.A.2 (ARM 17.8.106).

- F.18. MRL shall comply with the applicable recordkeeping requirements for work practice standards for VOCs and CO under 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, AM 17.8.302, and 40 CFR 63 Subpart DDDDD).

Reporting

- F.19. MRL shall comply with all applicable reporting requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302 and 40 CFR 63 Subpart DDDDD).
- F.20. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.
- F.21. The semiannual monitoring report shall clearly identify all deviations from permit requirements and shall provide (ARM 17.8.1212):
- summary of H-4201 NO_x and CO emissions as applicable;
 - a summary of any source testing that was performed during the reporting period including date testing was performed, result of the test, and date the report was submitted or estimated to be submitted;
 - summary demonstrating compliance status with 40 CFR 63 Subpart DDDDD including reference to submittal dates or reports made or included.

G. PTU and PTU Wastewater Handling

This section is included to identify where each of the PTU and PTU Wastewater is incorporated.

4201 Wastewater Collection Tank (covered in Section III.H Tanks)

PTU Blowdown Drum D-4208 (covered in Section III.H Tanks)

PTU Wastewater Loading (covered in Section III.J Truck and Railcar Loading)

H. Tanks

List of all Tanks

Tank ID	Stored Material	Tank Type	Volume Capacity (Gallons)	Tank Heated (Yes/No)	Working Temp. (°F)	Anticipated Maximum Annual Throughput (Gallons/yr)
#50	Renewable Feed	VFRT ¹	909,152	Yes	140	66,150,000
#102	Renewable Feed	VFRT	909,152	Yes	140	66,150,000
#112	Renewable Feed / RDU Slop Oil	VFRT	2,350,080	Yes	140	85,260,000
#140	Renewable Feed	VFRT	4,765,951	Yes	140	205,800,000
#301	Renewable Feed	VFRT	4,765,951	Yes	140	88,200,000
#302	Renewable Feed	VFRT	909,152	Yes	140	110,250,000
#303	Renewable Feed	VFRT	909,152	Yes	140	110,250,000
#304	Renewable Naphtha	VEFRT ²	988,207	No	Ambient	19,800,000
#29	Renewable	VFRT	869,625	No	Ambient	110,000,000

	Diesel					
#116	Renewable Diesel	VFRT	1,896,229	No	Ambient	110,000,000
#128	Renewable Diesel	VFRT	909,482	No	Ambient	110,000,000
#305	Renewable Diesel	VFRT	4,765,951	No	Ambient	110,000,000
#306	Renewable Kerosene	VFRT	360,972	No	Ambient	26,460,000
#307	Renewable Kerosene	VFRT	360,972	No	Ambient	
#308	Renewable Kerosene / Sustainable Aviation Fuel	VFRT	812,190	No	Ambient	52,920,000
#309	Renewable Kerosene / Sustainable Aviation Fuel (not yet installed)	VFRT	812,190	No	Ambient	
#305	Renewable Diesel	VFRT	4,765,951	No	Ambient	110,000,000
#305	Renewable Diesel	VFRT	4,765,951	No	Ambient	110,000,000
#0801	Conventional Diesel	VFRT	8,176	No	Ambient	1,200,000
#4201	PTU Wastewater	VFRT	323,877	Yes	140	52,560,000
#4203	Hot Oil Expansion Tank K-4203	Hor.	2,207	Yes	250	Nitrogen Sweep
#4208	PTU Wastewater Blowdown Drum D-4208	Hor.	14,692	Yes	200	Nitrogen Sweep

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
H.1, H.17, H.21, H.27, H.28	Tanks #301, #302, #303, #305, #306, #307, #308, #309 and #0801	Fixed Roof and Submerged Fill	Recordkeeping	Ongoing	Semiannual
H.2, H.17, H.18, H.21, H.22, H.25, H.27, H.28	Tank #304	External Floating Roof and 40 CFR 60 Subpart Kb	40 CFR 60 Subpart Kb	40 CFR 60 Subpart Kb	Semiannual and 40 CFR 60 Subpart Kb
H.3, H.17, H.21, H.27, H.28	Tank #4201	Carbon Adsorption Control Device	Recordkeeping	Ongoing	Semiannual
H.4, H.17, H.21, H.27, H.28	Tanks #301, #302 and #303	Store renewable feed or an equivalent	Recordkeeping	Ongoing	Semiannual
H.5, H.17, H.21, H.27, H.28	Tank #304	Store renewable naphtha or an equivalent	Recordkeeping	Ongoing	Semiannual
H.6, H.17, H.21, H.27, H.28	Tank #305	Store renewable diesel or an equivalent	Recordkeeping	Ongoing	Semiannual
H.7, H.17, H.21, H.27, H.28	Tanks #306 and #307	Store renewable kerosene or an equivalent	Recordkeeping	Ongoing	Semiannual
H.8, H.17, H.21, H.27, H.28	Tank #308 and #309	Store renewable kerosene or sustainable aviation fuel or an equivalent	Recordkeeping	Ongoing	Semiannual
H.9, H.17, H.21, H.27, H.28	Tank #0801	Store conventional diesel	Recordkeeping	Ongoing	Semiannual
H.10, H.17, H.21, H.27 H.28	Tank #4201	Store wastewater produced by the PTU	Recordkeeping	Ongoing	Semiannual
H.11, H.17, H.21, H.27, H.28	Tank #4203 (D- 4203)	MRL shall utilize proper equipment design and good operating practices to minimize VOCs	Recordkeeping	Ongoing	Semiannual

H.12, H.17, H.21, H.27, H.28	Blowdown Drum D-4208	MRL shall utilize carbon adsorption for VOC control on the PTU Blowdown Drum	Recordkeeping	Ongoing	Semiannual
H.13, H.17, H.21, H.27, H.28	Tank #112	Store renewable feed or RDU slop oil or an equivalent	Recordkeeping	Ongoing	Semiannual
H.14, H.17, H.21, H.27, H.28	Tanks #50 and #112	Equipped with a fixed roof	Recordkeeping	Ongoing	Semiannual
H.15, H.17, H.19, H.21, H.23, H.26, H.27, H.28	Tanks #29, #116, #125, #128, #303, #305, #306, #308 and #309	40 CFR 63 FFFF Group 2 Storage Tanks	40 CFR 63 FFFF Group 2 Storage Tanks	40 CFR 63 FFFF Group 2 Storage Tanks	40 CFR 63 FFFF Group 2 Storage Tanks and Semiannual
H.16, H.17, H.18, H.20, H.21, H.22, H.24, H.25, H.27, H.28	Tank #304	40 CFR 63 FFFF Group 1 Storage Tanks, by Complying with 40 CFR 60 Kb (63.2535 (c))	40 CFR 60 Kb	Ongoing	40 CFR 60 Kb and Semiannual

Conditions:

- H.1. MRL shall control VOC emissions from Tank #301, #302, #303, #305, #306, #307, #308, #309 and #0801 by equipping each tank with a fixed roof and submerged fill design (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211).
- H.2. MRL shall control VOC emissions from Tank #304 by equipping it with an external floating roof (ARM 17.8.752 and 40 CFR 60, Subpart Kb, ARM 17.8.340, ARM 17.8.749 and ARM 17.8.1211).
- H.3. MRL shall control VOC emissions from Tank #4201 by equipping it with a carbon adsorption control device (ARM 17.8.749, ARM 17.8.752 and ARM 17.8.1211).
- H.4. Tanks #301, #302 and #303 shall only be used to store renewable feed or an equivalent material with equal or lower vapor pressure (ARM 17.8.749 and ARM 17.8.1211).
- H.5. Tank #304 shall only be used to store renewable naphtha or an equivalent material with equal or lower vapor pressure (ARM 17.8.749 and ARM 17.8.1211).
- H.6. Tank #305 shall only be used to store renewable diesel or an equivalent material with equal or lower vapor pressure (ARM 17.8.749 and ARM 17.8.1211).

- H.7. Tanks #306 and #307 shall only be used to store renewable kerosene or an equivalent material with equal or lower vapor pressure (ARM 17.8.749 and ARM 17.8.1211).
- H.8. Tanks #308 and #309 shall only be used to store renewable kerosene or sustainable aviation fuel or an equivalent material with a vapor pressure equal or lower than the highest vapor pressure of renewable kerosene and sustainable aviation fuel (ARM 17.8.749 and ARM 17.8.1211).
- H.9. Tank #0801 shall only be used to store conventional diesel (ARM 17.8.749 and ARM 17.8.1211).
- H.10. MRL shall utilize proper equipment design and good operating practices to minimize VOCs from the Hot Oil Expansion Tank (D-4203) (ARM 17.8.749, ARM 17.8.752, and ARM 17.8.1211).
- H.11. MRL shall utilize carbon adsorption for VOC control on the PTU Blowdown Drum (D-4208) (ARM 17.8.749, ARM 17.8.752, and ARM 17.8.1211).
- H.12. Tank #4201 shall only be used to store wastewater produced by the PTU or an equivalent material with equal or lower vapor pressure (ARM 17.8.749 and ARM 17.8.1211).
- H.13. Tank #112 shall only be used to store renewable feed or RDU slop oil or an equivalent material with equal or lower vapor pressure (ARM 17.8.749 and ARM 17.8.1211).
- H.14. Tanks #50 and #102 shall each be equipped with a fixed roof (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211).
- H.15. Tank #29, Tank #116, Tank #125, Tank #128, Tank #303, Tank #305, #306, #308 and (#309- not yet installed) are Group 2 Storage Tanks and shall comply with 40 CFR 63 Subpart FFFF (ARM 17.8.749, ARM 17.8.1211, ARM 17.8.342, and 40 CFR 63 Subpart FFFF).
- H.16. Tank #304 is a Group 1 Storage Tank under 40 CFR 63 Subpart FFFF and shall comply by complying with 40 CFR 60 Subpart Kb per CFR 63.2535(c) (ARM 17.8.749, ARM 17.8.1211, ARM 17.8.340, ARM 17.8.342, 40 CFR 60 Subpart Kb, and 40 CFR 63 Subpart FFFF).

Compliance Demonstration:

- H.17. MRL shall maintain records on-site as to tank size, location, identifying number, design, contents/service, and throughput, such that tank service on any one specific day can be identified, compliance with the above requirements can be demonstrated, and emissions from any tank may be determined (ARM 17.8.1213).
- H.18. MRL shall demonstrate compliance with 40 CFR 60 Subpart Kb as required by 40 CFR 60 Subpart Kb (ARM 17.8.1213, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart Kb).
- H.19. MRL shall demonstrate compliance with 40 CFR 63 Subpart FFFF for Tank #29, Tank #116, Tank #125, Tank #128, Tank #303, Tank #305, #306, #308 and (#309- not yet

installed) as Group 2 Storage Tanks (ARM 17.8.749, ARM 17.8.1213, ARM 17.8.340, and 40 CFR 63 Subpart FFFF).

- H.20. MRL shall demonstrate compliance for Tank #304 as a Group 1 Storage Tank under 40 CFR 63 Subpart FFFF and shall comply by complying with 40 CFR 60 Subpart Kb per CFR 63.2535(c) (ARM 17.8.749, ARM 17.8.1213, ARM 17.8.340, ARM 17.8.342, 40 CFR 60 Subpart Kb, and 40 CFR 63 Subpart FFFF).

Recordkeeping:

- H.21. MRL shall maintain, under MRL's control, all records required for compliance monitoring as a permanent business record for at least 5 years. Furthermore, the records must be available at the plant site for inspection by DEQ and must be submitted to DEQ upon request (ARM 17.8.1212).
- H.22. MRL shall comply with all applicable recordkeeping requirements of 40 CFR 60 Subpart Kb (ARM 17.8.1212, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart Kb).
- H.23. MRL comply with all applicable recordkeeping requirements 40 CFR 63 Subpart FFFF for Tank #29, Tank #116, Tank #125, Tank #128, Tank #303, Tank #305, #306, #308 and (#309- not yet installed) as Group 2 Storage Tanks (ARM 17.8.749, ARM 17.8.1212, ARM 17.8.342, and 40 CFR 63 Subpart FFFF).
- H.24. MRL shall comply with all applicable recordkeeping requirements for Tank #304 as a Group 1 Storage Tank under 40 CFR 63 Subpart FFFF and shall comply by complying with 40 CFR 60 Subpart Kb per CFR 63.2535(c) (ARM 17.8.749, ARM 17.8.1212, ARM 17.8.340, ARM 17.8.342, 40 CFR 60 Subpart Kb, and 40 CFR 63 Subpart FFFF).

Reporting:

- H.25. MRL shall comply with all applicable reporting requirements of 40 CFR 60 Subpart Kb (ARM 17.8.1212, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart Kb).
- H.26. MRL shall comply with all applicable reporting requirements of 40 CFR 63 Subpart FFFF (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart FFFF).
- H.27. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.
- H.28. The semiannual monitoring report shall clearly identify all deviations from permit requirements and shall provide (ARM 17.8.1212(3)):
- a. A summary demonstrating compliance status with 40 CFR 60 Subpart Kb including reference to submittal dates of reports made or included;
 - b. A summary demonstrating compliance status with 40 CFR 63 Subpart FFFF including reference to submittal dates of reports made or included;
 - c. A summary of any tank service changes during the semiannual reporting period.

I. LOW PRESSURE BOILERS EACH WITH A NON-EMERGENCY GENERATOR

LPB-1
GEN-1
LPB-2
GEN-2

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method Frequency		Reporting Requirements
I.1, I.9, I.17, I.18, I.21, I.24, I.25	Low Pressure Boilers	CFR 63 Subpart DDDDD	CFR 63 Subpart DDDDD	CFR 63 Subpart DDDDD	Semiannual and 40 CFR 63 Subpart DDDDD
I.2, I.10, I.17, I.24, I.25	Boiler Fuel Sulfur content	Ultra-low sulfur diesel	Recordkeeping	Ongoing	Semiannual
I.3, I.11, I.17, I.24, I.25	Low Pressure boiler Annual Firing Average	Annual average firing rate no more than 2 MMBtu/hr (HHV)	Recordkeeping	Ongoing	Semiannual
I.4, I.12, I.17, I.24, I.25	Various	Good combustion practices and follow the manufacturer's recommendations for maintenance and operation	Recordkeeping	Ongoing	Semiannual
I.5, I.13, I.17, I.19, I.20, I.22, I.23, I.24, I.25	40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII	40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII	40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII	Ongoing	40 CFR 60 Subpart IIII Semiannual
I.6, I.14, I.17	Generator Fuel Sulfur content	Ultra-low sulfur diesel	Recordkeeping	Ongoing	Semiannual
I.7, I.15, I.17, I.24, I.25	Various	EPA Tier 4 certified	Recordkeeping	Ongoing	Semiannual
I.8, I.16, I.17, I.24, I.25	Various	Good combustion practices and follow the manufacturer's recommendations for maintenance and operation	Recordkeeping	Ongoing	Semiannual

Conditions

- I.1 Each LPB boiler shall comply with 40 CFR 63 Subpart DDDDD (40 CFR 63 Subpart DDDDD, ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.342).
- I.2 Each LPB boiler shall only be fired on ultra-low sulfur diesel (maximum sulfur content of 15 ppm) (ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.752).
- I.3 Each LPB boiler shall not exceed an annual average firing rate of 2 MMBtu/hr (HHV) (ARM 17.8.752, ARM 17.8.1211 and ARM 17.8.749).
- I.4 Each LPB boiler shall follow good combustion practices and follow the manufacturer's recommendations for maintenance and operation (ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.752).
- I.5 Each non-emergency generator shall comply with 40 CFR 63 Subpart ZZZZ by meeting the requirement of 40 CFR 60 Subpart IIII (40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart IIII, ARM 17.8.749, ARM 17.8.1211, ARM 17.8.340, and ARM 17.8.342).
- I.6 Each non-emergency generator shall only be fired on ultra-low sulfur diesel (maximum sulfur content of 15 ppm) (ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.752).
- I.7 Each non-emergency generator shall be EPA Tier 4 certified (ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.752).
- I.8 Each non-emergency generator shall follow good combustion practices and follow the manufacturer's recommendations for maintenance and operation (ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.752).

Compliance Demonstration

- I.9 Demonstrate compliance for low pressure boilers by meeting 40 CFR 63 Subpart DDDDD (ARM 17.8.749, ARM 17.8.1213, and 40 CFR 63 Subpart DDDDD).
- I.10 Demonstrate compliance by using no more than 15 ppm sulfur in diesel fuel in fuel for low pressure boilers (ARM 17.8.749 and ARM 17.8.1213).
- I.11 Demonstrate compliance by monitoring firing rates of each low-pressure boiler (ARM 17.8.749 and ARM 17.8.1213).
- I.12 Demonstrate compliance by following good combustion practices and manufacturer's recommendations for operation and maintenance (ARM 17.8.749 and ARM 17.8.1213).
- I.13 MRL shall demonstrate compliance with 40 CFR 63 Subpart ZZZZ by meeting 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines as required by 40 CFR 60 Subpart IIII (ARM 17.8.1213, ARM 17.8.340, ARM 17.8.302, ARM 17.8.342, 40 CFR 63 Subpart ZZZZ and 40 CFR 60 Subpart IIII).

- I.14 Demonstrate compliance by using no more than 15 ppm sulfur in diesel fuel in fuel for each generator (ARM 17.8.749 and ARM 17.8.1213).
- I.15 Demonstrate compliance by using only EPA Tier 4 certified generators (ARM 17.8.749 and ARM 17.8.1213).
- I.16 Each non-emergency generator shall follow good combustion practices and follow the manufacturer's recommendations for maintenance and operation (ARM 17.8.749 and ARM 17.8.1213).

Recordkeeping

- I.17 MRL shall maintain, under MRL's control, all records required for compliance monitoring as a permanent business record for at least 5 years. Furthermore, the records must be available at the plant site for inspection by DEQ and must be submitted to DEQ upon request (ARM 17.8.1212).
- I.18 MRL shall comply with all applicable recordkeeping requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).
- I.19 MRL shall comply with all applicable recordkeeping requirements of 40 CFR 60 Subpart IIII (ARM 17.8.1212, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart IIII).
- I.20 MRL shall comply with all applicable recordkeeping requirements of 40 CFR 63 Subpart ZZZZ (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart ZZZZ).

Reporting

- I.21 MRL shall comply with all applicable reporting requirements of 40 CFR 63 Subpart DDDDD (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart DDDDD).
- I.22 MRL shall comply with all applicable reporting requirements of 40 CFR 60 Subpart IIII (ARM 17.8.1212, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart IIII).
- I.23 MRL shall comply with all applicable reporting requirements of 40 CFR 63 Subpart ZZZZ (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart ZZZZ).
- I.24 The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.
- I.25 The semiannual monitoring report shall clearly identify all deviations from permit requirements and shall provide a summary of compliance with 40 CFR 60 Subpart IIII and 40 CFR 63 Subparts ZZZZ and DDDDD (ARM 17.8.1212(3)).

J. Truck and Railcar Loading

Railcar Loading of Renewable Fuels

Truck and Railcar Loading of PTU Wastewater

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method Frequency		Reporting Requirements
J.1, J.3, J.5 and J.7	VOCs from Railcar Loading	Submerged Fill	Recordkeeping	Continuous	Semiannual
J.2, J.4, J.6 and J.7	Truck loading and railcar loading of PTU wastewater	Carbon Adsorption Device	Recordkeeping	Continuous	Semiannual

Conditions

- J.1 Railcar loading of renewable kerosene and sustainable aviation fuel shall utilize submerged fill loading (ARM 17.8.749, ARM 17.8.1211 and ARM 17.8.752).
- J.2 Truck loading and railcar loading of PTU wastewater shall utilize carbon adsorption to minimize VOC releases (ARM 17.8.749, ARM 17.8.752 and ARM 17.8.1211).

Compliance Demonstration

- J.3 MRL shall demonstrate submerged fill loading is utilized for railcar loading of renewable kerosene and sustainable aviation fuel (ARM 17.8.749, ARM 17.8.752 and ARM 17.8.1213).
- J.4 MRL shall demonstrate that a carbon adsorption control device is utilized for truck and railcar loading to minimize VOC releases (ARM 17.8.749, ARM 17.8.752 and ARM 17.8.1213).

Recordkeeping

- J.5 MRL shall keep records of submerged railcar loading of renewable fuels (ARM 17.8.49 and ARM 17.8.1212).
- J.6 MRL shall keep of use of a carbon adsorption control device for loading of truck and railcar loading of PTU wastewater (ARM 17.8.49 and 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.

K. Fugitives and RDU Continuous Process Vents

RDU, Hydrogen Plant #4, Storage Tank, and PTU wastewater components
RDU Group 1 Continuous Process Vent
RDU Group 2 Continuous Process Vent Piping
Fugitive Components

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method Frequency		Reporting Requirements
K.1, K.13, K.19, K.20, K.24, K.29	VOCs from the RDU, Hydrogen Plant #4, Storage Tank, and PTU wastewater components	Utilize equipment design and equipment monitoring and maintenance practices meeting requirements of 40 CFR 60 Subpart QQQ which is not an applicable subpart.	Recordkeeping	Ongoing	Semiannual
K.2, K.13, K.14, K.19, K.20, K.22, K.24, K.25, K.27, K.29	RDU “individual drain systems,” “oil-water separators,” and “aggregate facilities”	Shall comply with the provisions found in 40 CFR 60.692–1 through 60.692–7 (40 CFR 60 Subpart QQQ), comply with 40 CFR 61 Subpart FF and the wastewater provisions found in 40 CFR 63.2485 Subpart FFFF.	Recordkeeping	Ongoing	Semiannual
K.3, K.13, K.14, K.19, K.20, K.21, K.22, K.24, K.25, K.27, K.28, K.29	Hydrogen Plant #4 “individual drain systems,” “oil-water separators,” and “aggregate facilities”	Shall comply with the provisions found in 40 CFR 60.692–1 through 60.692–7 (40 CFR 60 Subpart QQQ).	Recordkeeping	Ongoing	Semiannual
K.4, K.13, K.14, K.15, K.19, K.21, K.22, K.24, K.25, K.26, K.28, K.29	Storage Tank “individual drain systems,” “oil- water separators,” and “aggregate facilities”	Shall comply with the provisions found in 40 CFR 60.692–1 through 60.692–7 (40 CFR 60 Subpart QQQ) comply with 40 CFR 61 Subpart FF and the wastewater provisions found in 40 CFR 63.2485 Subpart FFFF	Recordkeeping	Ongoing	Semiannual
K.5, K.13, K.14, K.15, K.19, K.22, K.24, K.25,	PTU “individual drain systems,” “oil-water separators,” and	Shall comply with the provisions found in 40 CFR 60.692–1 through 60.692–7 (40 CFR	Recordkeeping	Ongoing	Semiannual

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method Frequency		Reporting Requirements
K.27, K.28, K.29	“aggregate facilities”	60 Subpart QQQ) comply with 40 CFR 61 Subpart FF and the wastewater provisions found in 40 CFR 63.2485 Subpart FFFF			
K.6, K.15, K.19, K.22, K.27, K.28, K.29	RDU Group 1 continuous process vent	Emission control requirements of 40 CFR 63.2455 Subpart FFFF	40 CFR 63 Subparts FFFF by complying with 40 CFR 63 Subpart CC, Recordkeeping	Ongoing	Semiannual
K.7, K.15, K.19, K.22, K.26, K.28, K.29	RDU Group 2 continuous process vent	Monitoring requirements of 40 CFR 63.2466 from Subpart FFFF	40 CFR 63 Subpart FFFF, Recordkeeping	Ongoing	Semiannual
K.8, K.13, K.20, K.24, K.28, K.29	VOCs from the RDU, Hydrogen Plant #4, Storage Tanks, and PTU piping fugitive components, and PTU Wastewater Components	Equipment design, equipment monitoring, and maintenance practices are utilized	Recordkeeping	Ongoing	Semiannual
K.9, K.13, K.14, K.15, K.19, K.21, K.22, K.24, K.25, K.26, K.28, K.29	RDU piping fugitive components “in VOC service”	RDU piping fugitive components “in VOC service” shall comply with the equipment leak provisions found in 40 CFR 60.482-1a through 60.482- 10a (40 CFR 60 Subpart VVa). Pursuant to NESHAP Subpart FFFF, the RDU piping fugitive components “in organic HAP service” shall comply with the new source equipment leak provisions found in 40 CFR 63.2480	Recordkeeping	Ongoing	Semiannual

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration Method Frequency		Reporting Requirements
K.10, K.16, K.17, K.19, K.23, K.27, K.28, K.29	Hydrogen Plant #4 piping fugitive components “in VOC service”	Hydrogen Plant #4 piping fugitive components “in VOC service” shall comply with the equipment leak provisions found in 40 CFR 60.482-1a through 60.482- 10a, Subpart VVa	Recordkeeping	Ongoing	Semiannual
K.11, K.17, K.18, K.23, K.27, K.28, K.29	Storage Tank piping fugitive components “in VOC service	Storage Tank piping fugitive components “in VOC service” shall comply with the equipment leak provisions found in 40 CFR 60.482- 1a through 60.482- 10a (40 CFR 60 Subpart VVa). Pursuant to NESHAP Subpart FFFF, the Storage Tank piping fugitive components in “organic HAP service” shall comply with the new source equipment leak provisions found in 40 CFR 63.2480”	Recordkeeping	Ongoing	Semiannual
K.12, K.17, K.23, K.27, K.28, K.29	PTU piping fugitive components “in VOC service”	PTU piping fugitive components “in VOC service” shall comply with the equipment leak provisions found in 40 CFR 60.482-1a through 60.482- 10a, Subpart VVa	Recordkeeping	Ongoing	Semiannual

Conditions

- K.1 MRL shall utilize equipment design and equipment monitoring and maintenance practices to control fugitive VOCs from the RDU, Hydrogen Plant #4, Storage Tank, and PTU wastewater components (ARM 17.8.752, ARM 17.8.749 and ARM 17.8.1211).
- K.2 RDU “individual drain systems,” “oil-water separators,” and “aggregate facilities” shall comply with the provisions found in 40 CFR 60.692–1 through 60.692–7 (40 CFR 60 Subpart QQQ). The RDU wastewater components shall comply with NESHAP Subpart FF and the wastewater provisions found in 40 CFR 63.2485 of NESHAP Subpart FFFF (ARM 17.8.749, ARM 17.8.1211, 40 CFR 63 Subpart FFFF and 40 CFR 60 Subpart QQQ).
- K.3 Hydrogen Plant #4 “individual drain systems,” “oil-water separators,” and “aggregate facilities” shall comply with the provisions found in 40 CFR 60.692–1 through 60.692–7 (40 CFR 60 Subpart QQQ). The Storage Tank wastewater components shall comply with NESHAP Subpart FF and the wastewater provisions found in 40 CFR 63.2485 of NESHAP Subpart FFFF (ARM 17.8.749, ARM 17.8.1211, 40 CFR 63 Subpart FFFF and 40 CFR 60 Subpart QQQ).
- K.4 Storage Tank “individual drain systems,” “oil-water separators,” and “aggregate facilities” shall comply with the provisions found in 40 CFR 60.692–1 through 60.692–7. The Storage Tank wastewater components shall comply with NESHAP Subpart FF and the wastewater provisions found in 40 CFR 63.2485 of NESHAP Subpart FFFF (ARM 17.8.749, ARM 17.8.1211, and 40 CFR 63 Subpart FFFF).
- K.5 PTU “individual drain systems,” “oil-water separators,” and “aggregate facilities” shall comply with the provisions found in 40 CFR 60.692-1 through 60.692-7. The PTU wastewater components shall comply with NESHAP Subpart FF (ARM 17.8.749, ARM 17.8.1211, and 40 CFR 63 Subpart FFFF).
- K.6 MRL shall comply with the emission control requirements of 40 CFR 63.2455 for each RDU Group 1 continuous process vent (40 CFR 63, Subpart FFFF, ARM 17.8.342, ARM 17.8.749 and ARM 17.8.1211).
- K.7 MRL shall comply with the monitoring requirements of 40 CFR 63.2455 for each applicable RDU Group 2 continuous process vent (40 CFR 63, Subpart FFFF, ARM 17.8.342, ARM 17.8.749 and ARM 17.8.1211).
- K.8 MRL shall utilize equipment design, and Leak Detection and Repair (LDAR) practices to control VOCs from the RDU, Hydrogen Plant #4, Storage Tanks, and PTU piping fugitive components, and PTU Wastewater Components (ARM 17.8.752, ARM 17.8.749 and 17.8.1211).
- K.9 RDU piping fugitive components “in VOC service” shall comply with the equipment leak provisions found in 40 CFR 60.482-1a through 60.482- 10a. Pursuant to NESHAP Subpart FFFF, the RDU piping fugitive components “in organic HAP service” shall comply with the new source equipment leak provisions found in 40 CFR 63.2480 (ARM 17.8.749 and ARM 17.8.1211).

- K.10 Hydrogen Plant #4 piping fugitive components “in VOC service” shall comply with the equipment leak provisions found in 40 CFR 60.482-1a through 60.482-10a (ARM 17.8.749 and ARM 17.8.1211).
- K.11 Storage Tank piping fugitive components “in VOC service” shall comply with the equipment leak provisions found in 40 CFR 60.482-1a through 60.482-10a. Pursuant to NESHAP Subpart FFFF, the Storage Tank piping fugitive components in “organic HAP service” shall comply with the new source equipment leak provisions found in 40 CFR 63.2480 (ARM 17.8.749 and ARM 17.8.1211).
- K.12 PTU piping fugitive components “in VOC service” shall comply with the equipment leak provisions found in 40 CFR 60.482-1a through 60.482-10a (ARM 17.8.749 and ARM 17.8.1211).

Compliance Demonstration:

- K.13 MRL complies with the equipment design, equipment monitoring, and maintenance practices found in 40 CFR 60.692-1 through 60.692-7 (ARM 17.8.749, ARM 17.8.752, ARM 17.8.1213 and 40 CFR 60 Subpart QQQ).
- K.14 The RDU wastewater components shall comply with 40 CFR 60 Subpart FF and the wastewater provisions found in 40 CFR 63.2485 of 40 CFR 63 Subpart FFFF (ARM 17.8.1213 and 40 CFR 63 Subpart FFFF).
- K.15 MRL complies with the applicable 40 CFR 63 Subpart FFFF requirements (ARM 17.8.749, ARM 17.8.1213, 40 CFR 63 Subpart FFFF).
- K.16 MRL utilizes equipment design and performs LDAR practices for these units to control VOCs (ARM 17.8.749, ARM 17.8.1213 and 40 CFR 60 Subpart VVa).
- K.17 MRL performs LDAR for the piping fugitive components “in VOC service” following the applicable requirements (ARM 17.8.749, ARM 17.8.1213, ARM 17.8.340 and 40 CFR 60 Subpart VVa).
- K.18 MRL performs LDAR for the piping fugitive components “in VOC service” following the applicable requirements (ARM 17.8.749, ARM 17.8.1213, ARM 17.8.340, ARM 17.8.342, 40 CFR 60 Subpart VVa and 40 CFR 63 Subpart FFFF).

Recordkeeping

- K.19 MRL shall maintain, under MRL’s control, all records required for compliance monitoring as a permanent business record for at least 5 years. Furthermore, the records must be available at the plant site for inspection by DEQ and must be submitted to DEQ upon request (ARM 17.8.1212).
- K.20 MRL shall comply with applicable recordkeeping requirements of 40 CFR 60 Subpart QQQ (ARM 17.8.1212, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart QQQ).

- K.21 MRL shall comply with applicable recordkeeping requirements of 40 CFR 61 Subpart FF (ARM 17.8.1212, ARM 17.8.341, ARM 17.8.302, and 40 CFR 61 Subpart FF).
- K.22 MRL shall comply with applicable recordkeeping requirements of 40 CFR 63 Subpart FFFF (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart FFFF).
- K.23 shall comply with applicable recordkeeping requirements of 40 CFR 60 Subpart VVa (ARM 17.8.1212, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart VVa).

Reporting

- K.24 MRL shall comply with applicable reporting requirements of 40 CFR 60 Subpart QQQ (ARM 17.8.1212, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart QQQ).
- K.25 MRL shall comply with applicable reporting requirements of 40 CFR 61 Subpart FF (ARM 17.8.1212, ARM 17.8.341, ARM 17.8.302, and 40 CFR 61 Subpart FF).
- K.26 MRL shall comply with applicable reporting requirements of 40 CFR 63 Subpart FFFF (ARM 17.8.1212, ARM 17.8.342, ARM 17.8.302, and 40 CFR 63 Subpart FFFF).
- K.27 MRL shall comply with applicable reporting requirements of 40 CFR 60 Subpart VVa (ARM 17.8.1212, ARM 17.8.340, ARM 17.8.302, and 40 CFR 60 Subpart VVa).
- K.28 The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements.
- K.29 The semiannual monitoring report shall clearly identify all deviations from permit requirements and shall provide (ARM 17.8.1212(3)):
- a. A summary demonstrating compliance status with 40 CFR 60 Subpart QQQ including reference to submittal dates of reports made or included;
 - b. A summary demonstrating compliance status with 40 CFR 61 Subpart FF including reference to submittal dates of reports made or included.
 - c. A summary demonstrating compliance status with 40 CFR 60 Subpart VVa including reference to submittal dates of reports made or included.
 - d. A summary demonstrating compliance status with 40 CFR 63 Subpart FFFF including reference to submittal dates of reports made or included.

SECTION IV. NON-APPLICABLE REQUIREMENTS

MRL did not provide a specific summary list of non-applicable requirements. Upon request DEQ will provide a list of requirements which cannot be determined to be non-applicable.

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)

Duty to Comply

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. 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.
4. 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 DEQ.

Need to Halt or Reduce Activity Not a Defense

1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of 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.

Duty to Provide Information

1. The permittee shall furnish to DEQ, within a reasonable time set by DEQ (not to be less than 15 days), any information that DEQ 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 DEQ 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 DEQ, as provided in 75-2-105, MCA.

Credible Evidence

1. 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.

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 DEQ may require to determine the compliance status of the source.
4. All compliance certifications must be submitted to the EPA, as well as to DEQ, 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 Section 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 Section 7651g(a) of the FCAA;
 - d. The ability of the administrator to obtain information from a source pursuant to Section 7414 of the FCAA;
 - e. The ability of DEQ to obtain information from a source pursuant to the Montana Clean Air Act, Title 75, Chapter 2, MCA;
 - f. The emergency powers of DEQ under the Montana Clean Air Act, Title 75, Chapter 2, MCA; and
 - g. The ability of DEQ 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 DEQ 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. The permit shield will not extend to minor permit modifications or changes not requiring a permit revision (see Sections I & J).
6. 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 DEQ, 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, the probable cause of such deviations, and any corrective actions or preventive measures taken. To be considered prompt, deviations shall be reported to DEQ 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 DEQ in accordance with the malfunction reporting requirements under ARM 17.8.110; and
 3. For all other deviations, deviations shall be reported to DEQ 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), §1214(5)-(8), and §1224(6)

In July 2023, EPA rescinded the emergency affirmative defense in its Title V regulations, arguing it was inconsistent with the Clean Air Act because it could limit a court's authority over remedies and potentially violate the continuous nature of emission standards. In response, each state which had emergency provisions within their title V operating permit program, including Montana, was required to remove the affected provisions from their operating permit program rules and from affected title V operating permits at renewal or during permit revisions. Montana officially removed the affected affirmative defense provisions cited here from the Administrative Rules of Montana (ARM), Title 17, Chapter 8, Subchapter 12.

Subsequently, in September 2025, the D.C. Circuit Court of Appeals reinstated the Clean Air Act emergency affirmative defense, reversing the EPA's 2023 rescission of the rule that provides a defense against liability for excess emissions during sudden, unforeseeable emergencies. The court found the EPA's rescission unlawful because an affirmative defense does not interfere with the court's authority to determine liability and does not exempt a source from continuous emission standards. In response, EPA will need to add the affirmative defense provisions back into its Title V, Part 70 regulations. If this reinstatement does occur, Montana will also add the affected provisions back into its Title V operating permit program and maintain the affected regulations in Title V operating permits.

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 DEQ, the administrator, or an authorized representative (including

an authorized contractor acting as a representative of DEQ 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 DEQ'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, DEQ 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, DEQ 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 MAQP 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 DEQ with written notification at least 7 days prior to making the proposed changes.
2. The permittee and DEQ 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. DEQ 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 DEQ 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 DEQ's ability to determine compliance with any applicable rule, consistent with the requirements of the rule; or
 - d. Any other change determined by DEQ 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. DEQ 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 DEQ 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 DEQ 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, DEQ 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 DEQ 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 DEQ.
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 DEQ 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 ARM 17.8.1214 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 DEQ 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 DEQ by the date required in the emission inventory request, unless otherwise specified in this permit. Information shall be in the units required by DEQ.

X. Open Burning

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

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

Y. Montana Air Quality Permits

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

1. Except as specified, no person shall construct, install, modify or use any air contaminant source or stack associated with any source without first obtaining a permit from DEQ 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 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 PTE 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 DEQ 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 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 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 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.

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 DEQ 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 DEQ's EEAP and shall be submitted according to a timetable developed by DEQ, 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 MRL, the permitting authority, inspectors, and the public.

Pursuant to ARM 17.8.1201(22)(a), an insignificant emission unit means any activity or emission unit located within a source that: (i) has a potential to emit (PTE) less than 5 tons per year of any regulated pollutant; (ii) has a PTE less than 500 lb/yr of lead; (iii) has a PTE less than 500 lb/yr of HAPs listed pursuant to Section 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 was provided by MRL. Because there are no requirements to update such a list, the emission units and/or activities may change from those listed.

The application identified the following sources/activities as insignificant.

Insignificant Tanks/Totes/ISO Tank Containers (generally $\leq 10,000$ -gallon capacity vessels used to store additives, treatment chemicals, etc.)

Maintenance Activities (cleaning and filter handling)

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 MRL;
- (d) Requires changes in monitoring or reporting requirements that DEQ 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 DEQ has determined that no other change in the air quality operating permit is necessary, consistent with ARM 17.8.1225; or
- (f) Incorporates any other type of change that DEQ 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 DEQ 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 DEQ, 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 Montana Air Quality Permit issued by DEQ 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 Section 7411 of the FCAA, including Section 7411(d);
- (d) Any standard or other requirement under Section 7412 of the FCAA, including any requirement concerning accident prevention under Section 7412(r)(7), but excluding the contents of any risk management plan required under Section 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 Section 7661c(b) or Section 7414(a)(3) of the FCAA;
- (g) Any standard or other requirement governing solid waste incineration, under Section 7429 of the FCAA;
- (h) Any standard or other requirement for consumer and commercial products, under Section 7511b(e) of the FCAA;
- (i) Any standard or other requirement for tank vessels, under Section 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 Section 7661c(e) of the FCAA; or
- (l) Any federally enforceable term or condition of any air quality open burning permit issued by DEQ under Subchapter 6.

"Department" means the Montana Department of Environmental Quality.

"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 Section 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.

"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.

"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 Part 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, including operating permits issued under an Environmental Protection Agency 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 DEQ, 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 MAQP issued by DEQ 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 Section 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 Section 7412 of the FCAA, including but not limited to the following:
 - (i) Any pollutant subject to requirements under Section 7412(j) of the FCAA. If the administrator fails to promulgate a standard by the date established in Section

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 Section 7412(e) of the FCAA;

- (ii) Any pollutant for which the requirements of Section 7412(g)(2) of the FCAA have been met but only with respect to the individual source subject to Section 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 DEQ.
- (b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively.
- (c) For a municipality, state, federal, or other public agency: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a regional administrator of the environmental protection agency).
- (d) For affected sources: the designated representative in so far as actions, standards, requirements, or prohibitions under Title IV of the FCAA or the regulations promulgated thereunder are concerned, and the designated representative for any other purposes under this subchapter.

Abbreviations:

ARM	Administrative Rules of Montana
ASTM	American Society of Testing Materials
BACT	Best Available Control Technology
Btu	British thermal unit
CEMS	Continuous Emissions Monitoring System
COMS	Continuous Opacity Monitoring System
CFR	Code of Federal Regulations
CMS	Continuous Monitoring System
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
FCCU	Fluid Catalytic Cracking Unit
Fuel Oil	Shall mean any liquid fossil fuel with sulfur content of greater than 0.05% by weight.
gr	grains
H ₂ S	hydrogen sulfide
HAP	hazardous air pollutant
hr	hour
IEU	insignificant emissions unit
MACT	Maximum Achievable Control Technology (40 CFR Part 63)
Method	40 CFR 60, Appendix A, Method
MMBtu	million British thermal units
NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Next Generation Ultra Low NO _x Burner or Next Generation ULNBs	Shall mean those burners new to the market that are designed to achieve a NO _x emission rate of 0.012 to 0.020 lb/MMBtu HHV when firing natural gas at 3% stack oxygen at full design load without air preheat
NSPS	New Source Performance Standard (40 CFR Part 60)
NO _x	oxides of nitrogen
NO ₂	nitrogen dioxide
O ₂	oxygen
OMMP	Operations, Malfunctions, and Maintenance Plan
Pb	lead
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter of 10 microns and less
PM _{2.5}	particulate matter with an aerodynamic diameter of 2.5 microns and less
PMA	Polymer Modified Asphalt
ppm	parts per million
ppmvd	parts per millions on a dry volumetric basis
psi	pounds per square inch
RATA	Relative Accuracy Test Audit
scf	standard cubic feet

Shutdown	Shall mean the cessation of operation of equipment for any purpose
SIC	Source Industrial Classification
SO ₂	sulfur dioxide
SO _x	oxides of sulfur
Startup	Shall mean the setting in operation of equipment for any purpose
TPD	tons per day
TPY	tons per year
U.S.C.	United States Code
VCU	vapor combustion unit
VE	visible emissions
VOC	volatile organic compound

APPENDIX C NOTIFICATION ADDRESSES

Compliance Notifications:

Montana Department of Environmental Quality
Air, Energy & Mining Division
Air Quality Bureau
P.O. Box 200901
Helena, MT 59620-0901

Enforcement and Compliance Assurance Division
Air Enforcement Branch
US EPA Region VIII, Montana Office
10 West 15th Street, Suite 3200
Helena, MT 59626

Permit Modifications:

Montana Department of Environmental Quality
Air, Energy & Mining Division
Air Quality Bureau
P.O. Box 200901
Helena, MT 59620-0901

Air and Radiation Division
Permit and Monitoring Branch
US EPA Region VIII, 8ARD-PM
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 MRL, permitting authority, inspectors, and the public.

Direction to Plant: MRL is located at 1900 10th Street Northeast along the Missouri River in the city of Great Falls, Montana.

Safety Equipment Required: Hardhat, steel-toed shoes/boots, and hearing protection (ear plugs will be provided by MRL) are required at the facility. A detailed safety manual is available at the site, and a MRL employee will conduct a safety briefing for any inspector prior to entering the plant area.

Facility Plot Plan: A site map was provided by MRL in the application submitted on November 2, 2024.

