July 19, 2016

Mr. Jade Stokke
Imerys Talc America, Inc.
2150 Bench Rd.
Three Forks, MT 59752

RE: Decision Title V Operating Permit #OP2282-08

Dear Mr. Stokke:

The Department of Environmental Quality has prepared the enclosed Decision Operating Permit # OP2282-08 for Imerys Talc America, Inc. – Three Forks Mill, located in the Northwest ¼ of Section 36, Township 2 North, Range 1 East, in Gallatin County, Montana. Please review the cover page of the attached permit for information pertaining to the action taking place on Permit # OP2282-08.

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

Sincerely,

Julie A Merkel

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

Craig Henrikson

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

JM:CH
Enclosure
Cc: Robert Duraski, US EPA Region VIII 8P-AR

STATE OF MONTANA
Department of Environmental Quality
Helena, Montana 59620

AIR QUALITY OPERATING PERMIT OP2282-08

Title V Renewal Application Received: **January 25, 2016**
Application Deemed Administratively Complete: **January 25, 2016**
Application Deemed Technically Complete: **January 25, 2016**
AFS Number: 30-**031-0006A**

Draft Issue Date: **April 28, 2016**
Proposed Issue Date: **June 3, 2016**
End of EPA 45-day Review: **July 18, 2016**
Date of Decision: **July 19, 2016**
Effective Date: **August 19, 2016**
Expiration Date: **August 19, 2021**
Renewal Application Date: **February 19, 2021**

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

Imerys Talc America, Inc.
Three Forks Mill, 2150 Bench Rd.
Three Forks, MT 59752

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

Permit Issuance and Appeal Processes In accordance with Section 75-2-218, MCA, the Department of Environmental Quality's (Department) decision regarding issuance of an operating permit is not effective until 30 days have elapsed from the date of the decision issued July 19, 2016. The decision may be appealed to the Board of Environmental Review (Board) by filing a request for a hearing within 30 days after the date of decision. The filing of a request for hearing does not stay the Department's decision, unless the Board orders a stay upon receipt of a petition and a finding that a stay is appropriate under Section 75-2-218(6)(b), MCA. If no stay is ordered, the Department's decision on the application is final 30 days after the decision is made and the Department will send notification and a final permit cover page to be attached to this document stating that the permit is final. In addition, ARM 17.8.1233 allows for any person to petition the Environmental Protection Agency (EPA) within 60 days after the expiration of EPA's 45-day review period to object to issuance of this operating permit. If EPA objects to the operating permit as a result of a petition prior to the Department's notification of a final permit, Imerys Talc and all affected parties will be informed of the stay of a final permit. If the Department has already notified Imerys Talc and all affected parties, the Department shall issue a revised permit according to ARM 17.8.1231. Questions regarding the final issuance date and status of appeals should be directed to the Department at (406) 444-3490.

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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: Imerys Talc America, Inc. - Three Forks Mill

Mailing Address: 2150 Bench Road

City: Three Forks **State:** MT **Zip:** 59752

Plant Location: Northwest ¼, Section 36, Township 2 North, Range 1 East, Gallatin County, MT

Responsible Official: Jade Stokke **Phone:** (406) 285-5314

Facility Contact Person: John Pettit **Phone:** (406) 285-5187

Primary SIC Code: 1499

Nature of Business: Non-Metallic Mineral Processing

Description of Process:

Talc and chlorite ore is hauled to the plant by truck and rail car. The ore is crushed to produce a product that is 44 to 149 micrometers in size. Further grinding is required to meet specifications. This milling takes place through roller mills, air classifying mills, and fluid energy mills. The product is sized by air classifiers.

The final product may be purchased from the facility in powder form or in pellets. In the pelletizing step, processed material is mixed with water to form a paste and then extruded as pellets. These pellets are dried by natural gas-fired pellet dryers. The final product is shipped from the facility in bagged or bulk form.

Imerys Talc America, Inc. (Imerys Talc) also receives talc and chlorite ore by truck, crushes the material, and ships it off by rail to other facilities for processing. This ore may be dried in a natural gas-fired crude dryer to remove the moisture, depending on moisture content.

The primary pollutant of concern in talc and chlorite processing is particulate matter less than 10 microns in diameter (PM_{10}). Particulate matter (PM) and PM_{10} are emitted from crushing, grinding, drying, classifying, materials handling and transfer operations, packaging and storage. Although pelletizing is a wet process, PM_{10} may be emitted from the transfer and feeding of processed material to the pellet mills. The ore processed at this facility does not contain any Hazardous Air Pollutants (HAPs).

Emissions from dryers include products of natural gas combustion, such as carbon monoxide, nitrogen oxides, volatile organic compounds, and sulfur oxides, in addition to filterable and condensable PM.

PM_{10} emissions from sources at this facility are controlled with fabric filters. Fabric filters also are used to control emissions from mechanical processes such as crushing and grinding. Material collected in the fabric filters is generally put back into the system; however, a small percentage of material collected by the various vacuum systems is bagged and disposed of as waste.

SECTION II. SUMMARY OF EMISSIONS UNITS

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

Emitting Unit ID	Emitting Unit	Pollution control devic	NSPS
EU001	Boiler 1	None	NA
EU002	Boiler 2	None	NA
EU003	Primary crusher – RC025	Fabric filter baghouse	NA
EU003	Secondary crusher – RC035	Fabric filter baghouse	NA
EU003	Belt conveyors – C030, C040, C050, C060	Fabric filter baghouse	NA
EU003	Bucket elevator – E045	Fabric filter baghouse	NA
EU003	60" Roller mill – M104	Fabric filter baghouse	NA
EU003	60" Roller mill feed bin – V180	Fabric filter baghouse	NA
EU003	54" Roller mill – M204	Fabric filter baghouse	NA
EU003	54" Roller mill feed bin – V280	Fabric filter baghouse	NA
EU003	FEM 1 – F807	Fabric filter baghouse	NA
EU003	FEM 1 feed bin – V880	Fabric filter baghouse	NA
EU003	FEM 1 cooling collector – F811	Fabric filter baghouse	NA
EU003	FEM 2 – F907	Fabric filter baghouse	NA
EU003	FEM 2 feed bin – V980	Fabric filter baghouse	NA
EU003	FEM 2 cooling collector – F911	Fabric filter baghouse	NA
EU003	Powder bulk bag packer bin – V1380	Fabric filter baghouse	NA
EU003	Powder bulk bag storage bin – V1390	Fabric filter baghouse	NA
EU003	Pellet mill feed bin – V380	Fabric filter baghouse	NA
EU003	Natural gas pellet dryer 1 – C307	Fabric filter baghouse	NA
EU003	Natural gas pellet dryer 2 – C313	Fabric filter baghouse	NA
EU003	Air pellet dryer 3 – C315	Fabric filter baghouse	NA
EU003	CMV packer bin – V384	Fabric filter baghouse	NA
EU003	Silo 1 – V401	Fabric filter baghouse	NA
EU003	Silo 2 – V402	Fabric filter baghouse	NA
EU003	Silo 3 – V403	Fabric filter baghouse	NA
EU003	Silo 8 – V408	Fabric filter baghouse	NA
EU003	Silo 9 – V409	Fabric filter baghouse	NA
EU003	Silo 10 – V410	Fabric filter baghouse	NA
EU003	Silo 11 – V411	Fabric filter baghouse	NA
EU003	Vacuum system 2 – V1576	Fabric filter baghouse	NA
EU003	Plant feed hopper & conveyor – SF015, C020	None	NA
EU003	Product classifier feed bin – F1701, F1702	Fabric filter baghouse	NA
EU004	66" Roller mill – M504	Fabric filter baghouse	OOO
EU004	66" Roller mill feed bin – V580	Fabric filter baghouse	OOO
EU004	(3) Roller mill packers - PK1554A, B, C	Fabric filter baghouse	OOO
EU004	Roller mill storage bin 1 – V1551	Fabric filter baghouse	OOO
EU004	Roller mill storage bin 2 – V1552	Fabric filter baghouse	OOO
EU004	Roller mill storage bin 3 – V1553	Fabric filter baghouse	OOO
EU004	Roller mill packer bin – V1554	Fabric filter baghouse	OOO
EU004	Coarse powder conveying collector – V2015	Fabric filter baghouse	OOO
EU004	Coarse powder bulk bag packer bin – V2080	Fabric filter baghouse	OOO
EU004	ACM 3 – V1140	Fabric filter baghouse	OOO
EU004	ACM 3 feed bin – V1180	Fabric filter baghouse	OOO
EU004	(4) MV packers – PK1504A, B, C, D	Fabric filter baghouse	OOO
EU004	MV storage bin 1 – V1501	Fabric filter baghouse	OOO
EU004	MV storage bin 2 – V1502	Fabric filter baghouse	OOO
EU004	MV storage bin 3 – V1503	Fabric filter baghouse	OOO

Emitting Unit ID	Emitting Unit	Pollution control devic	NSPS
EU004	MV packer bin – V1504	Fabric filter baghouse	OOO
EU004	CMV packer bin – V1594	Fabric filter baghouse	OOO
EU004	(3) CMV packers – PK1596A, B, C	Fabric filter baghouse	OOO
EU004	Silo 4 – V404	Fabric filter baghouse	OOO
EU004	Silo 5 – V405 (including Vacuum System 3 – V1374)	Fabric filter baghouse	OOO
EU004	Silo 6 – V406	Fabric filter baghouse	OOO
EU004	Silo 7 – V407	Fabric filter baghouse	OOO
EU004	Packing room fugitive collector – V1584	Fabric filter baghouse	OOO
EU004	Crude load-out crusher – RC062	Fabric filter baghouse	OOO
EU004	Crude load-out conveyors – C061, C063, C065 C076, C077	Fabric filter baghouse	OOO
EU004	Crude load-out bucket elevator – E064	Fabric filter baghouse	OOO
EU004	Crude load-out spout – H066	Fabric filter baghouse	OOO
EU004	Product classifier – F1760	Fabric filter baghouse	OOO
EU004	FEM holding tank – V412	Fabric filter baghouse	OOO
EU004	ZSC holding tank – V414	Fabric filter baghouse	OOO
EU004	Coated holding tank – V413	Fabric filter baghouse	OOO
EU004	Coated packer bin – V1900	Fabric filter baghouse	OOO
EU004	Coating system feed bin – V1880	Fabric filter baghouse	OOO
EU004	(3) Coated packers – PKR1904A, B, C	Fabric filter baghouse	OOO
EU004	Coated densifier feed bin – V1980	Fabric filter baghouse	OOO
EU004	Coated product conveying collector – V1850	Fabric filter baghouse	OOO
EU004	Coated packaging recovery collector – V1990	Fabric filter baghouse	OOO
EU004	Crude load-out feed hoppers & conveyor – SF060, SF073, C074	None	OOO
EU004	Jet Mill product collector	Fabric filter baghouse	OOO
EU004	Jet Mill feed bin	Fabric filter baghouse	OOO
EU005	ACM 1 – V640	Fabric filter baghouse	NA
EU006	ACM 1 feed bin – V680	Fabric filter baghouse	NA
EU007	ACM 2 – V740	Fabric filter baghouse	NA
EU008	ACM 2 feed bin – V780	Fabric filter baghouse	NA
EU009	CMV product silo 1 – V382	Fabric filter baghouse	NA
EU010	CMV product silo 2 – V383	Fabric filter baghouse	NA
EU011	FEM 1 classifier – F817	Fabric filter baghouse	NA
EU012	FEM 2 classifier – F917	Fabric filter baghouse	NA
EU013	Reclaim collector – V1354	Fabric filter baghouse	NA
EU014	RM/CMV truck load-out bin/spout – V1304	Fabric filter baghouse	NA
EU015	RM rail load-out bin – V1305	Fabric filter baghouse	NA
EU015	CMV rail load-out surge bin/spout – V381	Fabric filter baghouse	NA
EU016	Vacuum system 4 – V2110	Fabric filter baghouse	NA
EU017	Crude load-out dryer – C075	Fabric filter baghouse	UUU
EU018	Haul roads	Water/Chemical	NA
EU018	Ore storage (outdoor)	Water/Chemical	NA
EU018	Ore storage (indoor)	Water/Chemical	NA
EU018	Access roads or general plant property	Water/Chemical	NA
EU018	LPG Exhaust	None	NA
EU018	Diesel exhaust	None	NA
EU018	Truck Unloading	None	NA
EU018	Ore Handling (plant)	None	NA
EU018	Ore Handling (load-out)	None	NA
EU018	Haul trucks	None	NA
EU018	Light vehicles	None	NA
EU018	Loaders	None	NA

Emitting Unit ID	Emitting Unit	Pollution control devic	NSPS
EU019	Warehouse product airwall – AW1926	Airwall	NA
EU020	Silane Compound	NA	NA
EU021	Coating System Baghouse Control	Fabric Filter Baghouse	OOO
EU022	Jet Mill Boiler & Superheater (Natural Gas)	None	Dc

SECTION III. PERMIT CONDITIONS

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

A. Facility-Wide

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

Conditions

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

Compliance demonstration frequencies that list "as required by the Department" refer to ARM 17.8.105. In addition, for such sources, compliance with limits and conditions listing "as required by the Department" as the frequency, is verified annually using emission factors

and engineering calculations by the Department's compliance inspectors during the annual emission inventory review; in the case of Method 9 tests, compliance is monitored during the regular inspection by the compliance inspector.

A.2. Pursuant to ARM 17.8.304(1), Imerys Talc shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed on or before November 23, 1968, that exhibit an opacity of 40% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.

A.3. Pursuant to ARM 17.8.304(2), Imerys Talc shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.

A.4. Pursuant to ARM 17.8.308(1), Imerys Talc shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.

A.5. Pursuant to ARM 17.8.308(2), Imerys Talc shall not cause or authorize the use of any street, road or parking lot without taking reasonable precautions to control emissions of airborne particulate matter, unless otherwise specified by rule or in this permit.

A.6. Pursuant to ARM 17.8.308, Imerys Talc shall not operate a construction site or demolition project unless reasonable precautions are taken to control emissions of airborne particulate matter. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.

A.7. Pursuant to ARM 17.8.309, unless otherwise specified by rule or in this permit, Imerys Talc shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of the maximum allowable emissions of particulate matter for existing fuel burning equipment and new fuel burning equipment calculated using the following equations:

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

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

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

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

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

Where E = rate of emissions in pounds per hour and P = process weight rate in tons per hour.

A.9. Pursuant to ARM 17.8.322(4), Imerys Talc shall not burn liquid or solid fuels containing sulfur in excess of 1 pound per million Btu fired, unless otherwise specified by rule or in this permit.

A.10. Pursuant to ARM 17.8.322(5), Imerys Talc shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions, unless otherwise specified by rule or in this permit.

A.11. Pursuant to ARM 17.8.324(3), Imerys Talc shall not load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank is equipped with a vapor loss control device or is a pressure tank as described in ARM 17.8.324(1), unless otherwise specified by rule or in this permit.

A.12. Pursuant to ARM 17.8.324, unless otherwise specified by rule or in this permit, Imerys Talc shall not place, store or hold in any stationary tank, reservoir or other container of more than 65,000 gallon capacity any crude oil, gasoline or petroleum distillate having a vapor pressure of 2.5 pounds per square inch absolute or greater under actual storage conditions, unless such tank, reservoir or other container is a pressure tank maintaining working pressure sufficient at all times to prevent hydrocarbon vapor or gas loss to the atmosphere, or is designed and equipped with a vapor loss control device, properly installed, in good working order and in operation.

A.13. Pursuant to ARM 17.8.324, unless otherwise specified by rule or in this permit, Imerys Talc shall not use any compartment of any single or multiple-compartment oil-effluent water separator, which compartment receives effluent water containing 200 gallons a day or more of any petroleum product from any equipment processing, refining, treating, storing or handling kerosene or other petroleum product of equal or greater volatility than kerosene, unless such compartment is equipped with a vapor loss control device, constructed so as to prevent emission of hydrocarbon vapors to the atmosphere, properly installed, in good working order and in operation.

A.14. Pursuant to ARM 17.8.342 and 40 CFR 63.6, Imerys Talc shall submit to the Department a copy of any startup, shutdown, and malfunction (SSM) plan required under 40 CFR 63.6(e)(3) within 30 days of the effective date of this operating permit (if not previously submitted), within 30 days of the compliance date of any new National Emission Standard for Hazardous Air Pollutants (NESHAPs) or Maximum Achievable Control Technology (MACT) standard, and within 30 days of the revision of any such SSM plan, when applicable. The Department requests submittal of such plans in electronic form, when possible.

A.15. Pursuant to ARM 17.8.1211(1)(c) and 40 CFR Part 98, Imerys Talc shall comply with the 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. Imerys Talc shall promptly report deviations from permit requirements including those attributable to upset conditions, as upset is defined in the permit. To be considered prompt, deviations shall be reported to the Department using the schedule and content as described in Section V.E (unless otherwise specified in an applicable requirement) (ARM 17.8.1212).

A.17. On or before February 15 and August 15 of each year, Imerys Talc shall submit to the Department the compliance monitoring reports required by Section V.D. These reports shall contain all information required by Section V.D, as well as the information required by each individual emissions unit. For the reports due by February 15 of each year, Imerys Talc may submit a single report, provided that it contains all the information required by Sections V.B & V.D. Per ARM 17.8.1207,

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

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

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

B. EU001: Boiler #1

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
B.1, B.4, B.7, B.9, B.10, B.11	Opacity	40%	Method 9/ Pipeline-Quality Natural Gas Only	As required by the Department and Section III A.1/ Ongoing	Semiannual
B.2, B.5, B.7, B.9, B.10, B.11	Particulate Matter	$E= 0.882 * H^{-0.1664}$	Method 5	As required by the Department and Section III.A.1	
B.3, B.6, B.8, B.10, B.11	Fuel Specification/ Sulfur in Fuel	Pipeline-Quality Natural Gas Only/ 50 gr /100 scf	Pipeline-Quality Natural Gas Only	Ongoing	

Conditions

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

B.2. Imerys Talc shall not cause or authorize to be discharged into the outdoor atmosphere PM caused by the combustion of fuel from Boiler #1 in excess of the maximum allowable emissions of PM for existing fuel burning equipment calculated by $E =0.882 * H^{-0.1664}$, where H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

B.3. Imerys Talc shall burn only pipeline-quality natural gas for Boiler #1 operations. Further, Imerys Talc shall not burn any gaseous fuel containing sulfur compounds in excess of 50 gr/100 scf of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.749 and ARM 17.8.322(5)).

Compliance Demonstration

B.4. As required by the Department and Section III.A.1, Imerys Talc shall perform a Method 9 test in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). The Method 9 test shall be used to determine compliance with the 40% opacity limit. Additional opacity compliance monitoring shall be satisfied through burning only pipeline quality natural gas (ARM 17.8.1213).

B.5. Imerys Talc shall demonstrate compliance with the PM emissions limitation of Section III.B.2 by burning only pipeline quality natural gas. Additional compliance monitoring shall be accomplished through Method 5 testing. As required by the Department and Section III.A.1, Imerys Talc shall conduct a Method 5 test or another Department approved test method for total particulate to monitor compliance with Section III.B.2. The test shall conform to the methods and requirements of 40 CFR 60.8 and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

B.6. Compliance monitoring for Section III.B.3 shall be satisfied by burning pipeline quality natural gas only for Boiler #1 operations. Imerys Talc shall maintain a record demonstrating that only pipeline-quality natural gas was burned for Boiler #1 operations (ARM 17.8.1213).

Recordkeeping

B.7. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual and shall be maintained on-site (ARM 17.8.106 and ARM 17.8.1212).

B.8. Imerys Talc shall maintain the records required by Section III.B.6 on-site or under the facility's control and shall submit records to the Department upon request (ARM 17.8.1212).

Reporting

B.9. Any compliance source test reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

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

B.11. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. a summary of results of any source testing that was performed during that semiannual period; and

b. a brief summary of the records kept as required by Section III.B.6.

C. EU002: Boiler #2

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
C.1, C.4, C.7, C.9, C.10, C.11	Opacity	40%	Method 9/ Pipeline-Quality Natural Gas Only	As required by the Department and Section III.A.1/ Ongoing	Semiannual
C.2, C.5, C.7, C.9, C.10, C.11	Particulate Matter	$E= 0.882 * H^{-0.1664}$	Method 5	As required by the Department and Section III.A.1	
C.3, C.6, C.8, C.10, C.11	Fuel Specification / Sulfur in Fuel	Pipeline-Quality Natural Gas Only/ 50 gr /100 scf	Pipeline-Quality Natural Gas Only	Ongoing	

Conditions

C.1. Imerys Talc shall not cause or authorize any emissions to be discharged into the outdoor atmosphere from Boiler #2 that exhibit an opacity of 40% or greater averaged over 6 consecutive minutes (ARM 17.8.304(1)).

C.2. Imerys Talc shall not cause or authorize to be discharged into the outdoor atmosphere PM caused by the combustion of fuel from the Boiler #2 in excess of the maximum allowable emissions of PM for existing fuel burning equipment calculated by $E = 0.882 * H^{-0.1664}$, where H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

C.3. Imerys Talc shall burn only pipeline-quality natural gas for Boiler #2 operations. Further, Imerys Talc shall not burn any gaseous fuel containing sulfur compounds in excess of 50 gr/100 scf of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.749 and ARM 17.8.322(5)).

Compliance Demonstration

C.4. As required by the Department and Section III.A.1, Imerys Talc shall perform a Method 9 test in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). The Method 9 test shall be used to determine compliance with the 40% opacity limit. Additional opacity compliance monitoring shall be satisfied through burning only pipeline quality natural gas (ARM 17.8.1213).

C.5. Imerys Talc shall demonstrate compliance with the PM emissions limitation of Section III.C.2 by burning only pipeline quality natural gas. Additional compliance monitoring shall be accomplished through Method 5 testing. As required by the Department and Section III.A.1, Imerys Talc shall conduct a Method 5 test or another Department approved test method for total particulate to monitor compliance with Section III.C.2. The test shall conform to the methods and requirements of 40 CFR 60.8 and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

C.6. Monitoring compliance for Section III.C.3 shall be satisfied by burning pipeline quality natural gas only for Boiler #2 operations. Imerys Talc shall maintain a record verifying that only pipeline-quality natural gas was burned for Boiler #2 operations (ARM 17.8.1213).

Recordkeeping

C.7. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual and shall be maintained on-site or under the facility's control (ARM 17.8.106 and ARM 17.8.1212).

C.8. Imerys Talc shall maintain the records required by Section III.C.6 on-site and shall submit records to the Department upon request (ARM 17.8.1212).

Reporting

C.9. Any compliance source test reports shall be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

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

C.11. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. A summary of results of any source testing that was performed during that semiannual period; and

b. A brief summary of the records kept as required by Section III.C.6.

D. EU003: Facility Equipment Not Subject to 40 CFR 60, Subpart OOO

Includes, but is not limited to: Primary Crusher (RC025); Secondary Crusher (RC035); 30" Belt Conveyor (CO30); 24" Belt Conveyor (CO40); 18" Belt Conveyors (CO50 & CO60); Bucket Elevator (E045); 60" Roller Mill (M104); 60" Roller Mill Feed Bin (V180); 54" Roller Mill (M204); 54" Roller Mill Feed Bin (V280); FEM #1 (F807), FEM #2 (F907), FEM Cooler Collector #1 (F811), FEM Cooler Collector #2 (F911), FEM #1 Feed Bin (V860), FEM #2 Feed Bin (V960); FEM #2 Cooling Collector (F911); Powder Bulk Bag Packer Bin (V1380), Powder Bulk Bag Storage Bin (V1390); Pellet Mill Feed Bin (V380); Natural Gas Pellet Dryer #1 (C307); Gas Pellet Dryer #2 (C313); Pellet Air Dryer (C315); CMV Packer Bin (V384); Silo #1 (V401); Silo #2 (V402); Silo #3 (V403); Silo #8 (V408); Silo #9 (V409); Silo #10 (V410); Silo #11 (V411); Vacuum System #2 (V1576); Product Classifier Feed Bin (F1701 and F1702); and Plant feed hopper & conveyor (SF015, C020).

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
D.1, D.4, D.7, D.8, D.9, D.10, D.11	Opacity	40%	Method 9	Semiannual	Semiannual
			Visual Survey	Weekly	
D.2, D.5, D.7, D.8, D.9, D.10, D.11	Opacity	20%	Method 9	Semiannual	
			Visual Survey	Weekly	
D.3, D.6, D.8, D.9, D.10, D.11	Particulate Matter	$E= 4.10 * P^{0.67}$ or $E= 55 * P^{0.11} - 40$	Method 5	As required by the Department and Section III A.1	

Conditions

D.1. Imerys Talc shall not cause or authorize to be discharged into the outdoor atmosphere from any equipment not affected under 40 Code of Federal Regulations (CFR) 60, Subpart OOO, and manufactured prior to November 23, 1968, visible emissions that exhibit an opacity of 40% or greater averaged over 6 consecutive minutes, unless required by rule or stated otherwise in this permit (ARM 17.8.304(1)).

D.2. Imerys Talc shall not cause or authorize to be discharged into the outdoor atmosphere from any equipment not affected under 40 CFR 60, Subpart OOO, and manufactured after November 23, 1968, visible emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless required by rule or stated otherwise in this permit (ARM 17.8.304(2)).

D.3. Particulate emissions from process weight for any non-40 CFR 60, Subpart OOO, affected equipment shall not exceed the value calculated by $E = 4.10 * P^{0.67}$, for process weight rates up to 30 tons per hour, and/or $E = 55.0 * P^{0.11} – 40$ for process weight rates in excess of 30 tons per hour, where E is the emissions in pounds per hour and P is the process weight in tons per hour (ARM 17.8.310).

Compliance Demonstration

D.4. Imerys Talc shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions to monitor compliance with Section III.D.1. Under the visual survey option, once per calendar week, during daylight hours, Imerys Talc shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Imerys Talc shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 30% opacity based on the Method 9 source test, Imerys Talc shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Imerys Talc shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Imerys Talc of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Imerys Talc shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period shall be a minimum of 6 minutes unless any one reading is 40% or greater, then the observation period shall be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

D.5. Imerys Talc shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions to monitor compliance with Section III.D.2. Under the visual survey option, once per calendar week, during daylight hours, Imerys Talc shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Imerys Talc shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Imerys Talc shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Imerys Talc shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source

test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Imerys Talc of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Imerys Talc shall perform the Method 9 source tests for that reporting period.

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

D.6. As required by the Department and Section III.A.1, Imerys Talc shall conduct Method 5 testing or another Department approved test method for total particulate to monitor compliance with Section III.D.3. The test shall conform to the methods and requirements of 40 CFR 60.8 and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

Recordkeeping

D.7. If visual surveys are performed, Imerys Talc shall maintain a log of visual surveys performed as specified in Sections III.D.4 and III.D.5. Each log entry shall include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer's initials. If any corrective action is required, the time, date, observer's initials, and any preventive or corrective action taken shall be recorded in the log (ARM 17.8.1212).

D.8. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

Reporting

D.9. Imerys Talc shall submit all source test reports in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

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

D.11. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. Summary of visual surveys performed and logged as specified by Section III.D.8, or a summary of the results of any Method 9 source test conducted during the reporting period;

b. Summary of the log of corrective actions maintained as specified by Section III.D.7; and

c. Summary of results of any source testing that was performed during that semiannual period.

E. EU004: Facility Equipment Subject to 40 CFR 60, Subpart OOO

Includes, but is not limited to: 66" Roller Mill (M504); 66" Roller Mill Feed Bin (V580); 3 Roller Mill Packers (PK1554A, B, C); Roller Mill Storage Bin 1 (V1551); Roller Mill Storage Bin 2 (V1552); Roller Mill Storage Bin 3 (V1553); Roller Mill Packer Bin (V1554); Coarse Powder Conveying Collector (V2015); Coarse Powder Bulk Bag Packer Bin (V2080); ACM #3 (V1140); ACM #3 Feed Bin (V1180); 4 MV Packers (PK1504 A, B, C, D); MV Storage Bin #1 (V1501); MV Storage Bin #2 (V1502); MV Storage Bin #3 (V1503); MV Packer Bin (V1504); CMV Packer Bin (V1594); 3 CMV Packers (PK1596 A, B, C); Silo #4 (V404); Silo #5 (V405) (Including Vacuum System #3 (V1374)); Silo #6 (V406); Silo #7 (V407); Packaging Room Fugitive Collector (V1584); Crude Load-Out Crusher (RC062); Crude Load-Out Conveyors (C061, C063, C065, C076, C077); Crude Load-Out Bucket Elevator (E064); Crude Load-Out Spout (H066); Product Classifier (F1760); FEM Holding Tank (V412); ZSC Holding Tank (V414); Coated Holding Tank (V413); Coated Packer Bin (V1900); Coating System Feed Bin (V1880); 3 Coated Packers (PKR1904 A, B, C); Coated Densifier Feed Bin (V1980); Coated Product Conveying Collector (V1850); Coated Packaging Recovery Collector (V1990); Crude Load-Out Feed Hoppers and Conveyor (SF060, SF073, C074); Jet Mill Product Collector & Jet Mill Feed Bin.

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
E.1, E.5, E.6, E.8, E.9, E.10, E.11, E.12, E.13	Opacity	7%	Method 9	Semiannual	Semiannual
			Visual Survey	Weekly	Semiannual
			40 CFR 60, Subpart OOO	40 CFR 60, Subpart OOO	40 CFR 60, Subpart OOO
E.2, E.5, E.6, E.8, E.9, E.10, E.11, E.12, E.13	Opacity	10%	Method 9	Semiannual	Semiannual
			Visual Surveys	Weekly	Semiannual
			40 CFR 60, Subpart OOO	40 CFR 60, Subpart OOO	40 CFR 60, Subpart OOO
E.3, E.5, E.6, E.8, E.9, E.10, E.11, E.12, E.13	Opacity	0%	Method 9	Semiannual	Semiannual
			Visual Surveys	Weekly	Semiannual
			40 CFR 60, Subpart OOO	40 CFR 60, Subpart OOO	40 CFR 60, Subpart OOO
E.4, E.5, E.7, E.8, E.10, E.11, E.12, E.13	Particulate Matter	0.05 g/dscm / 0.022 gr/dscf	Method 5	As required by the Department and Section III.A.1	Semiannual

Conditions

E.1. Imerys Talc shall not cause or authorize to be discharged into the outdoor atmosphere visible emissions that exhibit an opacity of 7% or greater averaged over 6 consecutive minutes from any 40 CFR 60, Subpart OOO, affected equipment subject to this standard (ARM 17.8.340 and 40 CFR 60, Subpart OOO).

E.2. Imerys Talc shall not cause or authorize to be discharged into the outdoor atmosphere visible fugitive emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes from any 40 CFR 60, Subpart OOO, affected equipment subject to this standard (ARM 17.8.340 and 40 CFR 60, Subpart OOO).

E.3. When any 40 CFR 60, Subpart OOO, affected equipment is exhausted into a building instead of the atmosphere, Imerys Talc shall not cause to be discharged into the atmosphere, from any building enclosure, any transfer point on a conveyor belt, or any other affected facility, any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671 (ARM 17.8.340 and 40 CFR 60, Subpart OOO).

E.4. Stack emissions from any 40 CFR 60, Subpart OOO affected equipment are limited to 0.05 g/dscm (0.022 (gr/dscf)) of PM (ARM 17.8.340 and 40 CFR 60, Subpart OOO).

Compliance Demonstration

E.5. Imerys Talc shall demonstrate compliance with 40 CFR 60, Subpart OOO in accord with options available in 40 CFR 60, Subpart OOO (ARM 17.8.340 and 40 CFR 60, Subpart OOO). Further, Imerys Talc shall demonstrate compliance with opacity limits of Sections III.E.1 through III.E.3 through visual surveys or Method 9 source tests as required by Section III.E.6 (ARM 17.8.1213).

E.6. Imerys Talc shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Imerys Talc shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Imerys Talc shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 75% of the applicable opacity limit based on the Method 9 source test, Imerys Talc shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Imerys Talc shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Imerys Talc of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Imerys Talc shall perform the Method 9 source tests for that reporting period.

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

E.7. Imerys Talc shall monitor compliance with Section III.E.4 in accord with 40 CFR 60 Subpart OOO. Further, as required by the Department and Section III.A.1, Imerys Talc shall conduct Method 5 testing or another Department approved test method for total particulate to monitor compliance with the emissions limitation of Section III.E.4. The test shall conform to the methods and requirements of 40 CFR 60.8 and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

Recordkeeping

E.8. Imerys Talc shall maintain records as required by 40 CFR 60, Subpart OOO. Records shall be maintained on-site or under the facility's control (ARM 17.8.1212).

E.9. If visual surveys are performed, Imerys Talc shall maintain a log of the visual surveys performed as specified in Section III.E.6. Each log entry shall include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer's initials If any corrective action is required, the time, date, observer's initials, and any preventive or corrective action taken shall be recorded in the log (ARM 17.8.1212).

E.10. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

Reporting

E.11. Imerys Talc shall comply with the reporting requirements of 40 CFR 60, Subpart OOO (ARM 17.8.340 and 40 CFR 60, Subpart OOO).

E.12. The annual compliance certification required by Section V. B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

E.13. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. Summary of visual surveys performed and logged as specified by Section III.E.9, or a summary of the results of any Method 9 source test conducted during the reporting period;

b. Summary of the log of corrective actions maintained as specified by Section III.E.9; and

c. Summary of results of any source testing that was performed during that semiannual period.

F. EU005, EU006, EU007, EU008, EU009, EU010, EU011, EU012, EU013, EU014, EU015

Includes: EU005 – Air Classifying Mill #1 (V640), EU006 – Air Classifying Mill #1 Feed Bin (V680), EU007 – Air Classifying Mill #2 (V740), , EU008 – Air Classifying Mill #2 Feed Bin (V780); EU009 – CMV Silo #1 (V382); EU010 – CMV Silo #2 (V383); EU011 – FEM #1 Classifier (F817); EU012 – FEM #2 Classifier (F917); EU013 – Reclaiming Material Dust Collector (V1354); EU014 – Bulk Loading – Trucks (V1304); and EU015 – Bulk Loading – Railcars (V381 and V1305)

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
F.1, F.3, F.5, F.6, F.7, F.8, F.9	Opacity	20%	Method 9	Semiannual	Semiannual
			Visual Survey	Weekly	
F.2, F.4, F.5, F.7, F.8, F.9	Particulate Matter	0.05 g/dscm 0.022 gr/dscf	Method 5	As Required by the Department and Section III.A.2	

Conditions

F.1. Imerys Talc shall not cause or authorize to be discharged into the outdoor atmosphere from the ACM #1, ACM #2, ACM #1 Feed Bin, ACM #2 Feed Bin, FEM Classifier #1, FEM Classifier #2, CMV Silo #1, CMV Silo #2, Reclaiming Material Dust Collector, Bulk-Loading Trucks, and Bulk-Loading Railcars any stack emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304).

F.2. Emissions from the ACM #1, ACM #2, ACM #1 Feed Bin, ACM #2 Feed Bin, FEM Classifier #1, FEM Classifier #2, CMV Silo #1, CMV Silo #2, Reclaiming Material Dust Collector, Bulk-Loading Trucks, and Bulk-Loading Railcars are limited to 0.05 g/dscm (0.022 gr/dscf) of particulate (ARM 17.8.749).

Compliance Demonstration

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

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Imerys Talc shall perform the Method 9 source tests for that reporting period.

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

F.4. As required by the Department and Section III.A.1, Imerys Talc shall conduct Method 5 testing or another Department approved test method for total particulate to monitor compliance with Section III.F.2. The test shall conform to the methods and requirements of 40 CFR 60.8 and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

Recordkeeping

F.5. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

F.6. If visual surveys are performed, Imerys Talc shall maintain a log of the visual surveys performed as specified in Section III.F.3. Each log entry shall include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer's initials. If any corrective action is required, the time, date, observer's initials, and any preventive or corrective action taken shall be recorded in the log (ARM 17.8.1212).

Reporting

F.7. Any compliance source test reports shall be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

F.8. The annual compliance certification report required by Section V. B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

F.9. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. Summary of visual surveys performed and logged as specified by Section III.F.6, or a summary of the results of any Method 9 source test conducted during the reporting period;

b. Summary of the log of corrective actions maintained as specified by Section III.F.6; and

c. Summary of results of any source testing that was performed during that semiannual period.

G. EU016: Vacuum System #4

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
G.1, G.4, G.7, G.8, G.10, G.11, G.12	Opacity	10%	Method 9	Semiannual	Semiannual
			Visual Survey	Weekly	
G.2, G.5, G.8, G.10, G.11, G.12	Particulate Matter	0.05 g/dscm 0.022 gr/dscf	Method 5	As required by the Department and Section III.A.1	
G.3, G.6, G.9, G.11, G.12	Baghouse	Install, Operate, and Maintain	Log	Monthly	

Conditions

G.1. Imerys Talc shall not cause or authorize to be discharged into the atmosphere, from Vacuum System #4, visible emissions which exhibit an opacity of 10% or greater (ARM 17.8.752).

G.2. Particulate emissions from Vacuum System #4 are limited to 0.05 g/dscm (0.022 gr/dscf) of particulate (ARM 17.8.752).

G.3. Imerys Talc shall install, operate, and maintain a baghouse to control emissions from Vacuum System #4 (ARM 17.8.752).

Compliance Demonstration

G.4. Imerys Talc shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on Vacuum System #4. Under the visual survey option, once per calendar week, during daylight hours, Imerys Talc shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Imerys Talc shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 7% opacity based on the Method 9 source test, Imerys Talc shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Imerys Talc shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Imerys Talc of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Imerys Talc shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period shall be a minimum of 6 minutes unless any one reading is 10% or greater, then the observation period shall be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

G.5. As required by the Department and Section III.A.1, Imerys Talc shall conduct Method 5 testing or another Department-approved test method for total particulate matter on Vacuum System #4 to monitor compliance with Section III.G.2. The test shall conform to the methods and requirements of 40 CFR 60.8 and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

G.6. Compliance with Section III.G.3 shall be monitored by maintaining a monthly inspection and maintenance log for the Vacuum System #4 baghouse. The log shall include the time, date, the documenting personnel's initials, and any specific parameters checked to determine proper operations and conditions of the baghouse. If any corrective action is required, the time, date, observer's initials, and any preventative or corrective action taken shall be recorded in the log (ARM 17.8.1213).

Recordkeeping

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

G.8. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

G.9. The log required by Section III.G.6 shall be maintained on site and submitted to the Department upon request. Each log entry shall include the date, time, results of the inspection, and documenting personnel's initials. If any corrective action is required, the time, date, inspector's initials and any preventative or corrective action taken shall be recorded in the log (ARM 17.8.1212).

Reporting

G.10. Any compliance source test reports shall be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

G.11. The annual compliance certification report required by Section V. B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

G.12. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. Summary of visual surveys performed and logged as specified by Section III.G.7, or a summary of the results of any Method 9 source test conducted during the reporting period;

b. Summary of the log of corrective actions maintained as specified by Section III.G.7;

c. Summary of results of any source testing that was performed during that semiannual period; and

d. A brief summary of the log of inspections and maintenance as required by Section III.G.6.

H. EU017: Crude Load-Out Dryer (Natural Gas)

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
H.1, H.3, H.4, H.6, H.7, H.8, H.9, H.10, H.11, H.12	Opacity	10%	Method 9	Semiannual	Semiannual
			Visual Survey	Weekly	
H.2, H.3, H.5, H.6, H.7, H.8, H.9, H.10, H.11, H.12	Particulate Matter	0.057 g/dscm	Method 5	As required by the Department and Section III.A.1	

Conditions

H.1. Stack emissions from the Crude Load-Out Dryer are limited to 10% opacity (ARM 17.8.340 and 40 CFR 60, Subpart UUU).

H.2. PM emissions from the Crude Load-Out Dryer are limited to 0.057 g/dscm (ARM 17.8.340 and 40 CFR 60, Subpart UUU).

Compliance Demonstration

H.3. Imerys Talc shall demonstrate compliance with 40 CFR 60, Subpart UUU, through options required by 40 CFR 60, Subpart UUU. Further, Imerys Talc shall comply with Sections III.H.4 and III.H.5 (ARM 17.8.1213, ARM 17.8.340, and 40 CFR 60, Subpart UUU).

H.4. Imerys Talc shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on Crude Load-Out Dryer (Natural Gas). Under the visual survey option, once per calendar week, during daylight hours, Imerys Talc shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Imerys Talc shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 7% opacity based on the Method 9 source test, Imerys Talc shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Imerys Talc shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Imerys Talc of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Imerys Talc shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period shall be a minimum of 6 minutes unless any one reading is 10% or greater, then the observation period shall be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

H.5. As required by the Department and Section III.A.1, Imerys Talc shall conduct Method 5 testing or another Department approved test method for total particulate to monitor compliance with Section III.H.2. The test shall conform to the methods and requirements of 40 CFR 60.8, 40 CFR 60.730, Subpart UUU, and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.340, ARM 17.8.1213).

Recordkeeping

H.6. Imerys Talc shall comply with all applicable recordkeeping requirements contained in 40 CFR 60, Subpart UUU (ARM 17.8.340 and 40 CFR 60, Subpart UUU).

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

H.8. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

Reporting

H.9. Any compliance source test reports shall be submitted in accordance with the Montana Source Test Protocol and Procedures Manual and 40 CFR 60, Subpart UUU, as applicable (ARM 17.8.106, ARM 17.8.340, ARM 17.8.1212, and 40 CFR 60, Subpart UUU).

H.10. Imerys Talc shall comply with the applicable reporting requirements of 40 CFR 60, Subpart UUU (ARM 17.8.340, ARM 17.8.1212, and 40 CFR 60, Subpart UUU).

H.11. The annual compliance certification report required by Section V. B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

H.12. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. Summary of visual surveys performed and logged as specified by Section III.H.7, and a summary of the results of any Method 9 source test conducted during the reporting period;

b. Summary of the log of corrective actions maintained as specified by Section III.H.7;

c. Summary of results of any source testing that was performed during that semiannual period; and

d. Summary of compliance with 40 CFR 60, Subpart UUU.

I. EU018: Fugitive Emissions: Material Handling

Includes, but is not limited to: Haul Roads, Ore Handling, Ore Storage (Outdoor), Ore Storage (Indoor), Truck Unloading, and Access Roads or General Plant Property

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
I.1, I.4, I.6, I.7, I.8, I.9, I.10, I.11	Opacity	20%	Method 9	Semiannual	Semiannual
			Visual Surveys	Weekly	
I.2, I.3, I.4, I.5, I.6, I.7, I.8, I.9, I.10, I.11	Opacity and Reasonable Precautions	20% and Reasonable Precautions	Method 9	Semiannual	Semiannual
			Visual Surveys	Weekly	
			Water and/or Chemical Dust Suppressant	As Necessary	

Conditions

I.1. Fugitive emissions from sources not affected under 40 CFR Part 60, are limited to 20% opacity (ARM 17.8.308).

I.2. Imerys Talc shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes unless otherwise specified by rule or in this permit (ARM 17.8.308(1)).

I.3. Imerys Talc shall treat all unpaved portions of the access roads, parking lots, and general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the reasonable precautions and 20% opacity limitations (ARM 17.8.749).

Compliance Demonstration

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

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Imerys Talc shall perform the Method 9 source tests for that reporting period.

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

I.5. Imerys Talc shall treat all unpaved portions of the haul roads, access roads, parking lots, and general plant area with water and/or chemical dust suppressants as necessary to maintain compliance with ARM 17.8.308. Imerys Talc shall maintain a log recording water application and/or chemical dust suppressant application schedules, areas of application, and estimated amounts used (ARM 17.8.1213).

Recordkeeping

I.6. If visual surveys are performed, Imerys Talc shall maintain a log of the visual surveys performed as specified in Section III.I.4. Each log entry shall include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer's initials. If any corrective action is required, the time, date, observer's initials, and any preventive or corrective action taken shall be recorded in the log (ARM 17.8.1212).

I.7. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

I.8. The log required by Section III.I.5 shall be maintained on-site and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

I.9. Any compliance source test reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

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

I.11. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. Summary of visual surveys performed and logged as specified by Section III.I.6, or a summary of the results of any Method 9 source test conducted during the reporting period;

b. Summary of the log of corrective actions maintained as specified by Section III.I.6;

c. Summary of results of any source testing that was performed during that semiannual period; and

d. Summary of the log required by Section III.I.8.

J. EU019: Warehouse Product Airwall

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
J.1, J.3, J.5, J.6, J.7, J.8, J.9,	Opacity	10%	Method 9	Semiannual	Semiannual
			Visual Survey	Weekly	
J.2, J.4, J.6, J.7, J.8, J.9	Particulate Matter	0.0044 gr/dscf	Method 5	As required by the Department and Section III.A.1	

Conditions

J.1. Imerys Talc shall not cause or authorize emissions to be discharged into the outdoor atmosphere from the Warehouse Product Airwall that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749 and 17.8.752).

J.2. Imerys Talc shall not cause or authorize particulate matter emissions to be discharged into the outdoor atmosphere from the Warehouse Product Airwall in excess of 0.0044 gr/dscf (ARM 17.8.749 and 17.8.752).

Compliance Demonstration

J.3. Imerys Talc shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Imerys Talc shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Imerys Talc shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 7% opacity based on the Method 9 source test, Imerys Talc shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Imerys Talc shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Imerys Talc of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Imerys Talc shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period shall be a minimum of 6 minutes unless any one reading is 10% or greater, then the observation period shall be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

J.4. As required by the Department and Section III.A.1, Imerys Talc shall conduct Method 5 testing or another Department approved test method for total particulate on the Coated Product Packaging Airwall and the Warehouse Product Airwall to monitor compliance with Section III.J.2. The test shall conform to the methods and requirements of 40 CFR 60.8 and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

Recordkeeping

J.5. If visual surveys are performed, Imerys Talc shall maintain a log of the visual surveys performed as specified in Section III.J.3. Each log entry shall include the date, time, results of survey (and results of subsequent Method 9, if applicable), and observer's initials. If any corrective action is required, the time, date, observer's initials, and any preventive or corrective action taken shall be recorded in the log (ARM 17.8.1212).

J.6. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

Reporting

J.7. Any compliance source test reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

J.8. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

J.9. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. Summary of visual surveys performed and logged as specified by Section III.J.5, or a summary of the results of any Method 9 source test conducted during the reporting period;

b. Summary of the log of corrective actions maintained as specified by Section III.J.5; and

c. Summary of results of any source testing that was performed during that semiannual period.

K. EU020: Facility Silane Compound Use

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
K.1, K.2, K.3, K.4, K.5	Silane Compound	62.45 tons/rolling 12-month time period	Recordkeeping	Ongoing	Semiannual

Conditions

K.1. Silane compound use at the Imerys Talc facility shall not exceed 62.45 tons during any rolling 12-month time period (ARM 17.8.749).

Compliance Demonstration

K.2. Imerys Talc shall document, by month, the amount of Silane compound used at the facility. By the 25th day of each month Imerys Talc shall calculate the total amount of Silane compound used during the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section III.K.1. The information for each of the previous months shall be submitted along with the annual emission inventory (ARM 17.8.1213).

Recordkeeping

K.3. Imerys Talc shall maintain on-site a log of Silane compound use as required in Section III.K.2. The log shall include, at a minimum, the required Silane compound recordkeeping, the date, time, and the initials of the documenting personnel (ARM 17.8.1212).

Reporting

K.4. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

K.5. The semiannual monitoring report shall provide a summary of the log of Silane compound use (ARM 17.8.1212).

L. EU021: Coating System Baghouse Control

Includes baghouse control for the following emitting units (listed separately in EU004): FEM Holding Tank (V412); ZSC Holding Tank (V414); Coating System including, Coating System Feed Bin, Feeder, Turbilizer, and Ward Mill (V1880); Coated Holding Tank (V413); Packaging System, including, Coated Densifier Feed Bin (V1980), Densifier #1, Densifier #2, Coated Packer Bin (V1900), Coated Packers; and the Product Classifier.

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
L.1, L.2, L.3, L.4, L.5	Baghouse	Maintain and Operate	Log	Monthly	Semiannual

Conditions

L.1. Imerys Talc shall install, operate, and maintain baghouses to control emissions from the FEM Holding Tank (V412); ZSC Holding Tank (V414); Coating System including, Coating System Feed Bin, Feeder, Turbilizer, and Ward Mill (V1880); Coated Holding Tank (V413); Packaging System, including, Coated Densifier Feed Bin (V1980), Densifier #1, Densifier #2, Coated Packer Bin (V1900), Coated Packers; and the Product Classifier (ARM 17.8.752).

Compliance Demonstration

L.2. Compliance with Section III.L.1 shall be monitored by maintaining a monthly inspection and maintenance log for all the emitting units listed in Section III.L. The log shall include the time, date, initials of the documenting personnel, and any specific parameters inspected or monitored to determine proper operations and condition of the baghouse. If any corrective action is required, the time, date, observer's initials, and any preventative or corrective action taken must be recorded in the log (ARM 17.8.1213).

Recordkeeping

L.3. Imerys Talc shall maintain an inspection and maintenance log as required in Section III.L.2. The log shall be maintained on-site and submitted to the Department upon request (ARM 17.8.1212).

Reporting

L.4. The annual compliance certification report required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

L.5. The semiannual monitoring report shall contain a summary of the inspection and maintenance log required in Section III.L.2(ARM 17.8.1212).

M. EU022: Jet Mill Boiler & Superheater (Natural Gas)

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirements
			Method	Frequency	
M.1, M.5, M.9, M.12, M.13, M.14	Opacity	20%	Method 9 / Pipeline-Quality Natural Gas Only	As required by the Department and Section III.A.1/ Ongoing	Semiannual
M.2, M.6, M.9, M.12, M.13, M.14	Particulate Matter	$E= 0.882 * H^{-0.1664}$	Method 5	As required by the Department and Section III.A.1	
M.3, M.7, M.10, M.13, M.14	Fuel Specification/ Sulfur in Fuel	Pipeline Quality-Natural Gas Only/ 50 gr/100 dscf	Pipeline-Quality Natural Gas Only	Ongoing	
M.4., M.8, M.11, M.13, M.14	40 CFR 60, Subpart Dc	40 CFR 60, Subpart Dc	40 CFR 60, Subpart Dc	40 CFR 60, Subpart Dc	

Conditions

M.1. Imerys Talc shall not cause or authorize any emissions to be discharged into the outdoor atmosphere from the Jet Mill boiler & superheater that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).

M.2. Imerys Talc shall not cause or authorize to be discharged into the outdoor atmosphere PM caused by the combustion of fuel from the Jet Mill boiler & superheater in excess of the maximum allowable emissions of PM for existing fuel burning equipment calculated by $E =0.882 * H^{-0.1664}$, where H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

M.3. Imerys Talc shall burn only pipeline quality natural gas for the Jet Mill boiler & superheater. Further, Imerys Talc shall not burn any gaseous fuel containing sulfur compounds in excess of 50 gr/100 dscf of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

M.4. Imerys Talc shall meet the applicable requirements of 40 CFR 60, Subpart Dc for the Jet Mill boiler (ARM 17.8.340 and 40 CFR 60, Subpart Dc).

Compliance Demonstration

M.5. As required by the Department and Section III.A.1, a Method 9 test must be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). The Method 9 test shall be used to determine compliance with the 20% opacity limit. Additional opacity compliance monitoring shall be satisfied through burning only pipeline-quality natural gas, as required in Section III.M.3 (ARM 17.8.1213).

M.6. As required by the Department and Section III.A.1, Imerys Talc shall conduct a Method 5 test or another Department approved test method for total particulate to monitor compliance with Section III.M.2. The test shall conform to the methods and requirements of 40 CFR 60.8 and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).

M.7. Compliance monitoring for Section III.M.3 shall be satisfied by burning only pipeline-quality natural gas in the Jet Mill boiler & superheater (ARM 17.8.1213).

M.8. Compliance monitoring for the applicable requirements in 40 CFR 60, Subpart Dc shall be accomplished as described in 40 CFR 60, Subpart Dc (ARM 17.8.342 and 40 CFR 60, Subpart Dc).

Recordkeeping

M.9. All compliance source testing recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual and shall be maintained on site (ARM 17.8.106 and ARM 17.8.1212).

M.10. Imerys Talc shall maintain, on-site, a record noting any instance in which a fuel other than pipeline-quality natural gas was burned in the Jet Mill boiler & superheater, including date, time, reason, and operator's initials (ARM 17.8.1212).

M.11. Imerys Talc shall perform recordkeeping in accordance with 40 CFR 60, Subpart Dc, as applicable (ARM 17.8.340 and 40 CFR 60, Subpart Dc).

Reporting

M.12. Any compliance source test reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).

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

M.14. The semiannual monitoring report shall provide (ARM 17.8.1212):

a. A summary of results of any source testing that was performed during that semiannual period;

b. A summary of any instances in which a fuel other than pipeline-quality natural gas was burned in the Jet Mill boiler & superheater; and

c. A summary of compliance with 40 CFR 60, Subpart Dc.

SECTION IV. NON-APPLICABLE REQUIREMENTS

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

A. Facility-Wide

Based on information previously submitted, the following table contains non-applicable requirements which are administrated by the Air Resources Management Bureau of the Department of Environmental Quality.

Rule Citation		Reason
State	Federal	
ARM 17.8.316 ARM 17.8.320 ARM 17.8.321 ARM 17.8.323 ARM 17.8.324 ARM 17.8.610		These rules are not applicable because the facility is not listed in the source category cited in the rules.
	40 CFR 60.13 40 CFR 60, Subparts C, Cb, Cc, Cd, Ce 40 CFR 60, Subparts D, Da, Db, Dc 40 CFR 60, Subparts E-J 40 CFR 60, Subparts K, Ka, Kb 40 CFR 60, Subparts L-Z 40 CFR 60, Subparts AA-EE 40 CFR 60, Subpart GG 40 CFR 60, Subpart KK 40 CFR 60, Subpart MM 40 CFR 60, Subparts PP-XX 40 CFR 60, Subparts AAA-BBB 40 CFR 60, Subparts DDD 40 CFR 60, Subparts FFF-LLL 40 CFR 60, Subpart NNN 40 CFR 60 PPP-QQQ 40 CFR RRR-TTT 40 CFR VVV-WWW 40 CFR 60, Subparts AAAA-FFFF 40 CFR 60, Subparts IIII-OOOO 40 CFR 60, Subpart QQQQ-TTTT 40 CFR 61, Subparts B-F 40 CFR 61, Subparts H-L 40 CFR 61, Subparts N-R 40 CFR 61, Subparts V-W 40 CFR 61, Subpart Y 40 CFR 61, Subpart BB 40 CFR 61, Subpart FF 40 CFR 63, Subparts F-I 40 CFR 63, Subparts L-O 40 CFR 63, Subparts Q-U	These requirements are not applicable because the facility is not an affected source as defined in these regulations.

Rule Citation		Reason
State	Federal	
	40 CFR 63, Subparts W-Y 40 CFR 63, Subparts AA-CC 40 CFR 63, Subpart EE 40 CFR 63, Subpart GG-MM 40 CFR 63, Subparts CCC-EEE 40 CFR 63, Subparts GGG-JJJ 40 CFR 63, Subparts, LLL-RRR 40 CFR 63, Subparts TTT-VVV 40 CFR 63, Subpart XXX	
	40 CFR 68	A risk management plan is not required for this facility at this time
	40 CFR 72 through 40 CFR 78.	These requirements are not applicable because the facility is not an affected source as defined by the acid rain regulations.

B. Emissions Units

Imerys Talc has requested a shield from 40 CFR 60 Subpart OOO for the following units because they were installed before August 31, 1983, or because they meet the exemption criteria of 40 CFR 60.670d.

Emission Unit ID #	Process Equipment Identification
EU001	27 MMBtu/hr Natural Gas Boiler
EU002	30 MMBtu/hr Natural Gas Boiler
EU003	Includes, but is not limited to: Primary Crusher (RC025); Secondary Crusher (RC035); 30" Belt Conveyor (CO30); 24" Belt Conveyor (CO40); 18" Belt Conveyors (CO50 & CO60); Bucket Elevator (E045); 60" Roller Mill (M104); 60" Roller Mill Feed Bin (V180); 54" Roller Mill (M204); 54" Roller Mill Feed Bin (V280); FEM #1 (F807), FEM #2 (F907), FEM Cooler Collector #1 (F811), FEM Cooler Collector #2 (F911), FEM #1 Feed Bin (V860), FEM #2 Feed Bin (V960); FEM #2 Cooling Collector (F911); Powder Bulk Bag Packer Bin (V1380), Powder Bulk Bag Storage Bin (V1390); Pellet Mill Feed Bin (V380); Natural Gas Pellet Dryer #1 (C307); Gas Pellet Dryer #2 (C313); Pellet Air Dryer (C315); CMV Packer Bin (V384); Silo #1 (V401); Silo #2 (V402); Silo #3 (V403); Silo #8 (V408); Silo #9 (V409); Silo #10 (V410); Silo #11 (V411); Vacuum System #2 (V1576); Plant feed hopper & conveyor (SF015, C020); Product Classifier feed bin (F1701, F1702)
EU005	Air Classifying Mill #1 (V640)
EU006	Air Classifying Mill #1 Feed Bin (V680)
EU007	Air Classifying Mill #2 (V740)
EU008	Air Classifying Mill #2 Feed Bin (V780)

Emission Unit ID #	Process Equipment Identification
EU009	CMV Silo #1 (V382)
EU010	CMV Silo #2 (V383)
EU011	FEM #1 Classifier (F817)
EU012	FEM #2 Classifier (F917)
EU013	Reclaiming Material Dust Collector (V1354)
EU014	Bulk Loading – Trucks (V1304)
EU015	Bulk Loading – Railcars (V381 and V1305)
EU016	Vacuum System #4
EU017	Crude Load-Out Dryer (Natural Gas)
EU018	Fugitive Emissions: Material Handling
EU019	Warehouse Product Airwall
EU020	Facility Silane Compound Use
EU021	Coating System Baghouse Control
EU022	Jet Mill Boiler & Superheater (Natural Gas)

SECTION V. GENERAL PERMIT CONDITIONS

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

1. The permittee must comply with all conditions of the permit. Any noncompliance with the terms or conditions of the permit constitutes a violation of the Montana Clean Air Act, and may result in enforcement action, permit modification, revocation and reissuance, or termination, or denial of a permit renewal application under ARM Title 17, Chapter 8, Subchapter 12.

2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

3. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. If appropriate, this factor may be considered as a mitigating factor in assessing a penalty for noncompliance with an applicable requirement if the source demonstrates that both the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations, and that such health, safety or environmental impacts were unforeseeable and could not have otherwise been avoided.

4. The permittee shall furnish to the Department, within a reasonable time set by the Department (not to be less than 15 days), any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of those records that are required to be kept pursuant to the terms of the permit. This subsection does not impair or otherwise limit the right of the permittee to assert the confidentiality of the information requested by the Department, as provided in 75-2-105, MCA.

5. Any schedule of compliance for applicable requirements with which the source is not in compliance with at the time of permit issuance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it was based.

6. For applicable requirements that will become effective during the permit term, the source shall meet such requirements on a timely basis unless a more detailed plan or schedule is required by the applicable requirement or the Department.

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

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

2. Compliance certifications shall be submitted by February 15 of each year, or more frequently if otherwise specified in an applicable requirement or elsewhere in the permit. Each certification must include the required information for the previous calendar year (i.e., January 1 – December 31).

3. Compliance certifications shall include the following:

   a. The identification of each term or condition of the permit that is the basis of the certification;

   b. The identification of the method(s) or other means used by the owner or operator for determining the status of compliance with each term and condition during the certification period, consistent with ARM 17.8.1212;

   c. The status of compliance with each term and condition for the period covered by the certification, *including whether compliance during the period was continuous or intermittent* (based on the method or means identified in ARM 17.8.1213(7)(c)(ii), as described above); and

   d. Such other facts as the Department may require to determine the compliance status of the source.

4. All compliance certifications must be submitted to the Environmental Protection Agency, as well as to the Department, at the addresses listed in the Notification Addresses Appendix C of this permit.

C. **Permit Shield**
ARM 17.8, Subchapter 12, Operating Permit Program §1214(1)-(4)

1. The applicable requirements and non-federally enforceable requirements are included and specifically identified in this permit and the permit includes a precise summary of the requirements not applicable to the source. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements and any non-federally enforceable requirements as of the date of permit issuance.

2. The permit shield described in 1 above shall remain in effect during the appeal of any permit action (renewal, revision, reopening, or revocation and reissuance) to the Board of Environmental Review (Board), until such time as the Board renders its final decision.

3. Nothing in this permit alters or affects the following:

   a. The provisions of Sec. 7603 of the FCAA, including the authority of the administrator under that section;

   b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

   c. The applicable requirements of the Acid Rain Program, consistent with Sec. 7651g(a) of the FCAA;

d. The ability of the administrator to obtain information from a source pursuant to Sec. 7414 of the FCAA;

e. The ability of the Department to obtain information from a source pursuant to the Montana Clean Air Act, Title 75, Chapter 2, MCA;

f. The emergency powers of the Department under the Montana Clean Air Act, Title 75, Chapter 2, MCA; and

g. The ability of the Department to establish or revise requirements for the use of reasonably available control technology (RACT) as defined in ARM Title 17, Chapter 8. However, if the inclusion of a RACT into the permit pursuant to ARM Title 17, Chapter 8, Subchapter 12, is appealed to the Board, the permit shield, as it applies to the source's existing permit, shall remain in effect until such time as the Board has rendered its final decision.

4. Nothing in this permit alters or affects the ability of the Department to take enforcement action for a violation of an applicable requirement or permit term demonstrated pursuant to ARM 17.8.106, Source Testing Protocol.

5. Pursuant to ARM 17.8.132, for the purpose of submitting a compliance certification, nothing in these rules shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance. However, when compliance or noncompliance is demonstrated by a test or procedure provided by permit or other applicable requirements, the source shall then be presumed to be in compliance or noncompliance unless that presumption is overcome by other relevant credible evidence.

6. The permit shield will not extend to minor permit modifications or changes not requiring a permit revision (see Sections I & J).

7. The permit shield will extend to significant permit modifications and transfer or assignment of ownership (see Sections K & O).

D. **Monitoring, Recordkeeping, and Reporting Requirements**
ARM 17.8, Subchapter 12, Operating Permit Program §1212(2)&(3)

1. Unless otherwise provided in this permit, the permittee shall maintain compliance monitoring records that include the following information:

a. The date, place as defined in the permit, and time of sampling or measurement;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of such analyses; and

f. The operating conditions at the time of sampling or measurement.

2. The permittee shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. All monitoring data, support information, and required reports and summaries may be maintained in computerized form at the plant site if the information is made available to Department personnel upon request, which may be for either hard copies or computerized format. Strip-charts must be maintained in their original form at the plant site and shall be made available to Department personnel upon request.

3. The permittee shall submit to the Department, at the addresses located in the Notification Addresses Appendix C of this permit, reports of any required monitoring by February 15 and August 15 of each year, or more frequently if otherwise specified in an applicable requirement or elsewhere in the permit. The monitoring report submitted on February 15 of each year must include the required monitoring information for the period of July 1 through December 31 of the previous year. The monitoring report submitted on August 15 of each year must include the required monitoring information for the period of January 1 through June 30 of the current year. All instances of deviations from the permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official, consistent with ARM 17.8.1207.

E. **Prompt Deviation Reporting**
ARM 17.8, Subchapter 12, Operating Permit Program §1212(3)(b)

The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. To be considered prompt, deviations shall be reported to the Department within the following timeframes (unless otherwise specified in an applicable requirement):

1. For deviations which may result in emissions potentially in violation of permit limitations:

   a. An initial phone notification (or faxed or electronic notification) describing the incident within 24 hours (or the next business day) of discovery; and,

   b. A follow-up written, faxed, or electronic report within 30 days of discovery of the deviation that describes the probable cause of the reported deviation and any corrective actions or preventative measures taken.

2. For deviations attributable to malfunctions, deviations shall be reported to the Department in accordance with the malfunction reporting requirements under ARM 17.8.110; and

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

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

F. **Emergency Provisions**
ARM 17.8, Subchapter 12, Operating Permit Program §1201(13) and §1214(5), (6)&(8)

1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation and causes the source to exceed a technology-based emission limitation under this permit due to the unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of reasonable preventive maintenance, careless or improper operation, or operator error.

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the permittee demonstrates through properly signed, contemporaneous logs, or other relevant evidence, that:

   a. An emergency occurred and the permittee can identify the cause(s) of the emergency;

   b. The permitted facility was at the time being properly operated;

   c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and

   d. The permittee submitted notice of the emergency to the Department within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirements of ARM 17.8.1212(3)(b). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

3. These emergency provisions are in addition to any emergency, malfunction or upset provision contained in any applicable requirement.

G. **Inspection and Entry**
ARM 17.8, Subchapter 12, Operating Permit Program §1213(3)&(4)

1. Upon presentation of credentials and other requirements as may be required by law, the permittee shall allow the Department, the administrator, or an authorized representative (including an authorized contractor acting as a representative of the Department or the administrator) to perform the following:

   a. Enter the premises where a source required to obtain a permit is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

c. Inspect at reasonable times any facilities, emission units, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

d. As authorized by the Montana Clean Air Act and rules promulgated thereunder, sample or monitor, at reasonable times, any substances or parameters at any location for the purpose of assuring compliance with the permit or applicable requirements.

2. The permittee shall inform the inspector of all workplace safety rules or requirements at the time of inspection. This section shall not limit in any manner the Department's statutory right of entry and inspection as provided for in 75-2-403, MCA.

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

1. The permittee must pay application and operating fees, pursuant to ARM Title 17, Chapter 8, Subchapter 5.

2. Annually, the Department shall provide the permittee with written notice of the amount of the fee and the basis for the fee assessment. The air quality operation fee is due 30 days after receipt of the notice, unless the fee assessment is appealed pursuant to ARM 17.8.511. If any portion of the fee is not appealed, that portion of the fee that is not appealed is due 30 days after receipt of the notice. Any remaining fee, which may be due after the completion of an appeal, is due immediately upon issuance of the Board's decision or upon completion of any judicial review of the Board's decision.

3. If the permittee fails to pay the required fee (or any required portion of an appealed fee) within 90 days of the due date of the fee, the Department may impose an additional assessment of 15% of the fee (or any required portion of an appealed fee) or $100, whichever is greater, plus interest on the fee (or any required portion of an appealed fee), computed at the interest rate established under 15-31-510(3), MCA.

I. **Minor Permit Modifications**
ARM 17.8, Subchapter 12, Operating Permit Program §1226(3)&(11)

1. An application for a minor permit modification need only address in detail those portions of the permit application that require revision, updating, supplementation, or deletion, and may reference any required information that has been previously submitted.

2. The permit shield under ARM 17.8.1214 will not extend to any minor modifications processed pursuant to ARM 17.8.1226.

J. **Changes Not Requiring Permit Revision**
ARM 17.8, Subchapter 12, Operating Permit Program §1224(1)-(3), (5)&(6)

1. The permittee is authorized to make changes within the facility as described below, provided the following conditions are met:

    a. The proposed changes do not require the permittee to obtain a Montana Air Quality Permit under ARM Title 17, Chapter 8, Subchapter 7;

    b. The proposed changes are not modifications under Title I of the FCAA, or as defined in ARM Title 17, Chapter 8, Subchapters 8, 9, or 10;

    c. The emissions resulting from the proposed changes do not exceed the emissions allowable under this permit, whether expressed as a rate of emissions or in total emissions;

    d. The proposed changes do not alter permit terms that are necessary to enforce applicable emission limitations on emission units covered by the permit; and

    e. The facility provides the administrator and the Department with written notification at least 7 days prior to making the proposed changes.

2. The permittee and the Department shall attach each notice provided pursuant to 1.e above to their respective copies of this permit.

3. Pursuant to the conditions above, the permittee is authorized to make Section 502(b)(10) changes, as defined in ARM 17.8.1201(30), without a permit revision. For each such change, the written notification required under 1.e above shall include a description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

4. The permittee may make a change not specifically addressed or prohibited by the permit terms and conditions without requiring a permit revision, provided the following conditions are met:

    a. Each proposed change does not weaken the enforceability of any existing permit conditions;

    b. The Department has not objected to such change;

    c. Each proposed change meets all applicable requirements and does not violate any existing permit term or condition; and

    d. The permittee provides contemporaneous written notice to the Department and the administrator of each change that is above the level for insignificant emission units as defined in ARM 17.8.1201(22) and 17.8.1206(3), and the written notice describes each such change, including the date of the change, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

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

K. **Significant Permit Modifications**
ARM 17.8, Subchapter 12, Operating Permit Program §1227(1), (3)&(4)

1. The modification procedures set forth in 2 below must be used for any application requesting a significant modification of this permit. Significant modifications include the following:

   a. Any permit modification that does not qualify as either a minor modification or as an administrative permit amendment;

   b. Every significant change in existing permit monitoring terms or conditions;

   c. Every relaxation of permit reporting or recordkeeping terms or conditions that limit the Department's ability to determine compliance with any applicable rule, consistent with the requirements of the rule; or

   d. Any other change determined by the Department to be significant.

2. Significant modifications shall meet all requirements of ARM Title 17, Chapter 8, including those for applications, public participation, and review by affected states and the administrator, as they apply to permit issuance and renewal, except that an application for a significant permit modification need only address in detail those portions of the permit application that require revision, updating, supplementation or deletion.

3. The permit shield provided for in ARM 17.8.1214 shall extend to significant modifications.

L. **Reopening for Cause**
ARM 17.8, Subchapter 12, Operating Permit Program §1228(1)&(2)

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

1. Additional applicable requirements under the FCAA become applicable to the facility when the permit has a remaining term of 3 or more years. Reopening and revision of the permit shall be completed not later than 18 months after promulgation of the applicable requirement. No reopening is required under ARM 17.8.1228(1)(a) if the effective date of the applicable requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms or conditions have been extended pursuant to ARM 17.8.1220(12) or 17.8.1221(2);

2. Additional requirements (including excess emission requirements) become applicable to an affected source under the Acid Rain Program. Upon approval by the administrator, excess emission offset plans shall be deemed incorporated into the permit;

3. The Department or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit; or

4. The administrator or the Department determines that the permit shall be revised or revoked and reissued to ensure compliance with the applicable requirements.

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

1. This permit is issued for a fixed term of 5 years.

2. Renewal of this permit is subject to the same procedural requirements that apply to permit issuance, including those for application, content, public participation, and affected state and administrator review.

3. Expiration of this permit terminates the permittee's right to operate unless a timely and administratively complete renewal application has been submitted consistent with ARM 17.8.1221 and 17.8.1205(2)(d). If a timely and administratively complete application has been submitted, all terms and conditions of the permit, including the application shield, remain in effect after the permit expires until the permit renewal has been issued or denied.

4. For renewal, the permittee shall submit a complete air quality operating permit application to the Department not later than 6 months prior to the expiration of this permit, unless otherwise specified. If necessary to ensure that the terms of the existing permit will not lapse before renewal, the Department may specify, in writing to the permittee, a longer time period for submission of the renewal application. Such written notification must be provided at least 1 year before the renewal application due date established in the existing permit.

N. **Severability Clause**
ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(i)&(l)

1. The administrative appeal or subsequent judicial review of the issuance by the Department of an initial permit under this subchapter shall not impair in any manner the underlying applicability of all applicable requirements, and such requirements continue to apply as if a final permit decision had not been reached by the Department.

2. If any provision of a permit is found to be invalid, all valid parts that are severable from the invalid part remain in effect. If a provision of a permit is invalid in one or more of its applications, the provision remains in effect in all valid applications that are severable from the invalid applications.

O. **Transfer or Assignment of Ownership**
ARM 17.8, Subchapter 12, Operating Permit Program §1225(2)&(4)

1. If an administrative permit amendment involves a change in ownership or operational control, the applicant shall include in its request to the Department a written agreement containing a specific date for the transfer of permit responsibility, coverage and liability between the current and new permittee.

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

P. **Emissions Trading, Marketable Permits, Economic Incentives**
ARM 17.8, Subchapter 12, Operating Permit Program §1226(2)

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

Q. **No Property Rights Conveyed**
ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(d)

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

R. **Testing Requirements**
ARM 17.8, Subchapter 1, General Provisions §105

The permittee shall comply with ARM 17.8.105.

S. **Source Testing Protocol**
ARM 17.8, Subchapter 1, General Provisions §106

The permittee shall comply with ARM 17.8.106.

T. **Malfunctions**
ARM 17.8, Subchapter 1, General Provisions §110

The permittee shall comply with ARM 17.8.110.

U. **Circumvention**
ARM 17.8, Subchapter 1, General Provisions §111

The permittee shall comply with ARM 17.8.111.

V. **Motor Vehicles**
ARM 17.8, Subchapter 3, Emission Standards §325

The permittee shall comply with ARM 17.8.325.

W. **Annual Emissions Inventory**
ARM 17.8, Subchapter 5, Air Quality Permit Application, Operation and Open Burning Fees §505 (STATE ONLY)

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

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

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

Y. **Montana Air Quality Permits**
ARM 17.8, Subchapter 7, Permit, Construction and Operation of Air Contaminant Sources §745 and 764:)

1. Except as specified, no person shall construct, install, modify or use any air contaminant source or stack associated with any source without first obtaining a permit from the Department or Board. A permit is not required for those sources or stacks as specified by ARM 17.8.744(1)(a)-(k).

2. The permittee shall comply with ARM 17.8.743, 744, 745, 748, and 764.

3. ARM 17.8.745(1) specifies de minimis changes as construction or changed conditions of operation at a facility holding a Montana Air Quality Permit (MAQP) issued under Chapter 8 that does not increase the facility's potential to emit by more than 5 tons per year of any pollutant, except:

   a. Any construction or changed condition that would violate any condition in the facility's existing MAQP or any applicable rule contained in Chapter 8 is prohibited, except as provided in ARM 17.8.745(2);

   b. Any construction or changed conditions of operation that would qualify as a major modification under Subchapters 8, 9 or 10 of Chapter 8;

   c. Any construction or changed condition of operation that would affect the plume rise or dispersion characteristic of emissions that would cause or contribute to a violation of an ambient air quality standard or ambient air increment as defined in ARM 17.8.804;

   d. Any construction or improvement project with a potential to emit more than 5 tons per year may not be artificially split into smaller projects to avoid Montana Air Quality Permitting; or

   e. Emission reductions obtained through offsetting within a facility are not included when determining the potential emission increase from construction or changed conditions of operation, unless such reductions are made federally enforceable.

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

Z. **National Emission Standard for Asbestos**
40 CFR, Part 61, Subpart M

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

AA. **Asbestos**
ARM 17.74, Subchapter 3, General Provisions and Subchapter 4, Fees

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

BB. **Stratospheric Ozone Protection – Servicing of Motor Vehicle Air Conditioners**
40 CFR, Part 82, Subpart B

If the permittee performs a service on motor vehicles and this service involves ozone-depleting substance/refrigerant in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR 82, Subpart B.

CC. **Stratospheric Ozone Protection – Recycling and Emission Reductions**
40 CFR, Part 82, Subpart F

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

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156;

2. Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158;

3. Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technical certification program pursuant to §82.161;

4. Persons disposing of small appliances, MVACs and MVAC-like (as defined at §82.152) appliances must comply with recordkeeping requirements pursuant to §82.166;

5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156; and

6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.

DD. **Emergency Episode Plan**

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

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

EE. **Definitions**

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

APPENDICES

Appendix A INSIGNIFICANT EMISSIONS UNITS

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

Pursuant to ARM 17.8.1201(22)(a), an insignificant emission unit means any activity or emissions unit located within a source that: (i) has a potential to emit less than five tons per year of any regulated pollutant; (ii) has a potential to emit less than 500 pounds per year of lead; (iii) has a potential to emit less than 500 pounds per year of hazardous air pollutants listed pursuant to 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 were provided by Imerys Talc.

Emitting Unit ID	Emitting Unit
IEU001	Coated Packaging Densifier #1
IEU002	Coated Packaging Densifier #2
IEU003	Powder Bulk Bag Densifier #1
IEU004	Powder Bulk Bag Densifier #2
IEU005	Diesel Tank
IEU006	Building Vents (6)
IEU007	Gasoline Exhaust
IEU008	Stationary Ore-Unloading Ramp and associated equipment

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 Imerys Talc;

(d) requires changes in monitoring or reporting requirements that the Department deems to be no less stringent than current monitoring or reporting requirements;

(e) allows for a change in ownership or operational control of a source if the Department has determined that no other change in the air quality operating permit is necessary, consistent with ARM 17.8.1225; or

(f) incorporates any other type of change which the Department has determined to be similar to those revisions set forth in (a)-(e), above.

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

(a) any standard, rule, or other requirement, including any requirement contained in a consent decree or judicial or administrative order entered into or issued by the Department, that is contained in the Montana state implementation plan approved or promulgated by the administrator through rule making under Title I of the FCAA;

(b) any federally enforceable term, condition or other requirement of any Montana Air Quality Permit issued by the Department under Subchapters 7, 8, 9 and 10 of this chapter, or pursuant to regulations approved or promulgated through rule making under Title I of the FCAA, including parts C and D;

(c) any standard or other requirement under 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 the Department 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.

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

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

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

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

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

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

(a) any standard, rule, or other requirement, including any requirement contained in a consent decree, or judicial or administrative order entered into or issued by the Department, that is not contained in the Montana state implementation plan approved or promulgated by the administrator through rule making under Title I of the FCAA;

(b) any term, condition or other requirement contained in any Montana Air Quality Permit issued by the Department under Subchapters 7, 8, 9 and 10 of this chapter that is not federally enforceable;

(c) does not include any Montana ambient air quality standard contained in Subchapter 2 of this chapter.

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

"Regulated air pollutant" means the following:

(a) nitrogen oxides or any volatile organic compounds;

(b) any pollutant for which a national ambient air quality standard has been promulgated;

(c) any pollutant that is subject to any standard promulgated under 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 the Department.

(b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively.

(c) For a municipality, state, federal, or other public agency: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a regional administrator of the environmental protection agency).

(d) For affected sources: the designated representative in so far as actions, standards, requirements, or prohibitions under Title IV of the FCAA or the regulations promulgated thereunder are concerned, and the designated representative for any other purposes under this subchapter.

Abbreviations:

ARM	Administrative Rules of Montana
ASTM	American Society of Testing Materials
BACT	Best Available Control Technology
BDT	bone dry tons
Btu	British Thermal Unit
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
dscf	dry standard cubic foot
dscfm	dry standard cubic foot per minute
dscm	dry standard cubic meter
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
g	gram
gr	grains
HAP	hazardous air pollutant
IEU	insignificant emissions unit
lb	pound
Mbdft	thousand board feet
Method 5	40 CFR 60, Appendix A, Method 5
Method 9	40 CFR 60, Appendix A, Method 9
MMbdft	million board feet
MMBtu	million British Thermal Units
NOx	oxides of nitrogen
NO_2	nitrogen dioxide
O_2	oxygen
Pb	lead
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in size
psi	pounds per square inch
scf	standard cubic feet
SIC	Source Industrial Classification
SO_2	sulfur dioxide
SOx	oxides of sulfur
tpy	tons per year
U.S.C.	United States Code
VE	visible emissions
VOC	volatile organic compound

Appendix C NOTIFICATION ADDRESSES

Compliance Notifications:

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

United States EPA
Air Program Coordinator
Region VIII, Montana Office
10 W. 15th 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

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

Appendix D AIR QUALITY INSPECTOR INFORMATION

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

1. **Direction to Plant:** Imerys Talc America, Inc., Three Forks facility is located on an approximately 50 acre site in Gallatin County, Montana, directly south of Three Forks, Montana. From Interstate 90, take the Three Forks exit. Travel through town on the main street. Follow the road until you reach the Imerys Talc facility.

2. **Safety Equipment Required:** All visitors entering the Three Forks Mill will be required to receive Hazard Recognition Training, which will consist of a review of site hazards, reading and signing a Hazard Recognition Form and will include a site tour to point out common potential hazards. In addition, the site tour will include a review of our emergency procedures, a description of emergency evacuation, and the location of emergency equipment.

   Minimum personal protective equipment requirements for visitors include a hardhat, safety glasses, and appropriate footwear. Open toed sandals or high heels are not allowed to be worn in production or maintenance areas. Additional safety equipment such as full protection, hearing protection, respirators or supplementary eye protection may be required when warranted by conditions.

3. **Facility Plot Plan:** A facility plot plan was submitted to the Department with the initial operating permit application on March 19, 1996, and is available from the Department upon request.