MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION

September 26, 2024

PERMIT TO INSTALL
115-24

ISSUED TO
Sekisui Voltek, LLC

LOCATED AT
17 Allen Avenue
Coldwater, Michigan 48036

IN THE COUNTY OF
Branch

STATE REGISTRATION NUMBER
B8786

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: **April 12, 2024**	
DATE PERMIT TO INSTALL APPROVED: **September 26, 2024**	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

COMMON ACRONYMS

AQD	Air Quality Division
BACT	Best Available Control Technology
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
COMS	Continuous Opacity Monitoring System
Department/department/EGLE	Michigan Department of Environment, Great Lakes, and Energy
EU	Emission Unit
FG	Flexible Group
GACS	Gallons of Applied Coating Solids
GC	General Condition
GHGs	Greenhouse Gases
HVLP	High Volume Low Pressure*
ID	Identification
IRSL	Initial Risk Screening Level
ITSL	Initial Threshold Screening Level
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MAERS	Michigan Air Emissions Reporting System
MAP	Malfunction Abatement Plan
MSDS	Material Safety Data Sheet
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review
PS	Performance Specification
PSD	Prevention of Significant Deterioration
PTE	Permanent Total Enclosure
PTI	Permit to Install
RACT	Reasonable Available Control Technology
ROP	Renewable Operating Permit
SC	Special Condition
SCR	Selective Catalytic Reduction
SNCR	Selective Non-Catalytic Reduction
SRN	State Registration Number
TBD	To Be Determined
TEQ	Toxicity Equivalence Quotient
USEPA/EPA	United States Environmental Protection Agency
VE	Visible Emissions

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO_2e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H_2S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO_x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO_2	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**

2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**

3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**

4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**

5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**

6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**

7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**

8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.

9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
    a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
    b) A visible emission limit specified by an applicable federal new source performance standard.
    c) A visible emission limit specified as a condition of this Permit to Install.

12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUMILL01	Milling operation No. 1 for grinding plastic resins prior to extrusion with bag filter control.	01-01-1974	FGPARTICULATE
EUMILL02	Milling operation No. 2 for grinding plastic resins prior to extrusion with bag filter control.	01-01-1974	FGPARTICULATE
EUMILL03	Milling operation No. 3 for grinding plastic resins prior to extrusion with bag filter control.	01-01-1977	FGPARTICULATE
EUMILL04	Milling operation No. 4 for grinding plastic resins prior to extrusion with bag filter control.	04-01-1981	FGPARTICULATE
EUMILL05	Milling operation No. 5 for grinding plastic resins prior to extrusion with bag filter control.	07-01-1994	FGPARTICULATE
EUMILL06	Milling operation No. 6 for grinding plastic resins prior to extrusion with bag filter control.	TBD	FGPARTICULATE
EUOVEN01	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	08-28-1981	FGOVENS
EUOVEN02	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	08-28-1981*	FGOVENS
EUOVEN03	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	08-28-1981*	FGOVENS
EUOVEN04	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	08-28-1981*	FGOVENS
EUOVEN05	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	06-14-1993	FGOVENS
EUOVEN06	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	03-01-1989	FGOVENS
EUOVEN07	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	12-01-1990	FGOVENS
EUOVEN08	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	07-01-1994	FGOVENS
EUOVEN09	One 0.55 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	11-01-1995	FGOVENS

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUOVEN10	One 1.0 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	01-01-1996	FGOVENS
EUOVEN11	One 1.0 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	04-19-1996	FGOVENS
EUOVEN13	One 1.0 MMBtu/hr natural gas fired vertical oven used to expand extruded plastic into foam, controlled by a catalytic oxidizer.	02-05-2020	FGOVENS
EUOVEN14	Natural gas fired vertical oven used to expand plastic into foam with a heat input rating of 1.5 MMBTU/hr, controlled by a catalytic oxidizer.	TBD	FGOVENS
EUOven6Preheat	Natural gas fired jet preheater for Oven 6 with a nominal heat input rating of 1.25 MMBTU/hr.	10-19-2015	FGOVENS
EUOven10Preheat	Natural gas fired jet preheater for Oven 10 with a nominal heat input rating of 1.2 MM BTU/hr.	11-01-2016	FGOVENS
EUOven11Preheat	Natural gas fired jet preheater for Oven 11 with a nominal heat input rating of 1.2 MM BTU/hr.	11-01-2016	FGOVENS
EUOven13Preheat	Natural gas-fired Jet preheater for Oven 13 with a nominal heat rating of 1.25 MM BTU/hr.	TBD	FGOVENS
EUSILO01	Silo No. 1 for storage of plastic resin prior to use in other processes.	01-01-1975	FGPARTICULATE
EUSILO02	Silo No. 2 for storage of plastic resin prior to use in other processes.	01-01-1974	FGPARTICULATE
EUSILO03	Silo No. 3 for storage of plastic resin prior to use in other processes.	01-01-1976	FGPARTICULATE
EUSILO04	Silo No. 4 for storage of plastic resin prior to use in other processes.	01-01-1977	FGPARTICULATE
EUSILO05	Silo No. 5 for storage of plastic resin prior to use in other processes.	01-01-1977	FGPARTICULATE
EUSILO06	Silo No. 6 for storage of plastic resin prior to use in other processes.	01-01-1978	FGPARTICULATE
EUSILO07	Silo No. 7 for storage of plastic resin prior to use in other processes.	02-01-1992	FGPARTICULATE
EUSILO08	Silo No. 8 for storage of plastic resin prior to use in other processes.	02-01-1995	FGPARTICULATE
EUSILO09	Silo No. 9 for storage of plastic resin prior to use in other processes.	02-01-1995	FGPARTICULATE
EUSILO10	Silo No. 10 for storage of plastic resin prior to use in other processes.	05-05-2008	FGPARTICULATE
EUSILO11	Silo No. 11 for storage of plastic resin prior to use in other processes.	04-10-2018	FGPARTICULATE
EUSILO12	Silo No. 12 for storage of plastic resin prior to use in other processes.	04-10-2018	FGPARTICULATE
EUEXTRUDER	One 600 lb/hr plastic resin extruder.	TBD	FGPARTICULATE
EUBIN1	One 20,000 pound plastic pellet storage bin.	TBD	FGPARTICULATE
EUBIN2	One 20,000 pound plastic pellet storage bin.	TBD	FGPARTICULATE

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUBIN3	One 20,000 pound plastic pellet storage bin.	TBD	FGPARTICULATE

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGOVENS	Thirteen (13) natural gas fired vertical ovens used to expand extruded plastic into foam, each is controlled by a catalytic oxidizer; and four (4) natural gas fired jet preheater ovens.	EUOVEN01 EUOVEN02 EUOVEN03 EUOVEN04 EUOVEN05 EUOVEN06 EUOVEN07 EUOVEN08 EUOVEN09 EUOVEN10 EUOVEN11 EUOVEN13 EUOven6Preheat EUOven10Preheat EUOven11Preheat EUOven13Preheat EUOVEN14
FGPARTICULATE	Six (6) plastic resin milling operations, twelve (12) plastic resin storage silos, three (3) storage bins, and one (1) plastic resin extruder.	EUMILL01 EUMILL02 EUMILL03 EUMILL04 EUMILL05 EUMILL06 EUSILO01 EUSILO02 EUSILO03 EUSILO04 EUSILO05 EUSILO06 EUSILO07 EUSILO08 EUSILO09 EUSILO10 EUSILO11 EUSILO12 EUEXTRUDER EUBIN1 EUBIN2 EUBIN3

FGOVENS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Thirteen (13) natural gas fired vertical ovens used to expand extruded plastic into foam, each is controlled by a catalytic oxidizer; and four (4) natural gas fired jet preheater ovens.

Emission Unit: EUOVEN01, EUOVEN02, EUOVEN03, EUOVEN04, EUOVEN05, EUOVEN06, EUOVEN07, EUOVEN08, EUOVEN09, EUOVEN10, EUOVEN11, EUOven6Preheat, EUOven10Preheat, EUOven11Preheat, EUOVEN13, EUOVEN14, EUOven13Preheat

POLLUTION CONTROL EQUIPMENT

Catalytic Oxidizer on each oven.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	0.12 pound/hr each emission unit	Hourly	FGOVENS	SC III.1, SC III.2, SC IV.1, SC V.1	R 336.1702(a)
2. Ammonia	0.10 pound/hr each emission unit[1]	Hourly	EUOVEN01 EUOVEN02 EUOVEN03 EUOVEN04 EUOVEN05 EUOVEN08	SC III.1, SC III.2, SC IV.1, SC V.1	R 336.1224 R 336.1225
3. Ammonia	0.57 pound/hr[1]	Hourly	EUOVEN07	SC III.1, SC III.2, SC IV.1, SC V.1	R 336.1224 R 336.1225
4. Ammonia	0.40 pound/hr each emission unit[1]	Hourly	EUOVEN09 EUOVEN10 EUOVEN11 EUOVEN13, EUOVEN14	SC III.1, SC III.2, SC IV.1, SC V.1	R 336.1224 R 336.1225
5. Ammonia	0.38 pound/hr[1]	Hourly	EUOVEN06	SC III.1, SC III.2, SC IV.1, SC V.1	R 336.1224 R 336.1225

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The pemittee shall not operate a foam production oven unless its respective catalytic oxidizer is installed maintained and operated in a satisfactory manner. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

2. The permittee shall not operate any foam production oven unless a minimum temperature of 600^{o}F at the inlet of the catalyst bed of the associated catalytic oxidizer is maintained. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall calibrate, maintain and operate according to manufacturer's specifications, a continuous temperature monitoring device with a continuous recorder at the inlet and oulet of the catalyst bed of each catalytic oxidizer. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

2. The permittee shall equip and maintain each oven in FGOVENS with an alarm that signals when the temperature at the inlet of the catalyst bed during foam production is at or below the minimum temperature required by SC III.2. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. By October 11, 2027, the permittee shall verify VOC and Ammonia emission rates from EUOVEN14 and at least two other ovens in FGOVENS by testing at owner's expense, in accordance with the Department requirements. The two other ovens must be agreed upon by the AQD District Office as being representative of all the ovens. The hourly emission rate during testing shall be determined by the average of the acceptable test runs performed. Thereafter, at least once every five years, verification of volatile organic compound and ammonia emission rates from FGOVENS by testing at owner's expense, in accordance with Department requirements, shall be required. At least three ovens shall be chosen for testing and agreed upon by the AQD District Office as being representative of all the ovens. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
VOC	40 CFR Part 60, Appendix A
Ammonia	40 CFR Part 63, Appendix A

An alternate method, or a modification to the approved USEPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1224, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep monthly records of the amount (weight) of foam produced per oven. **(R 336.1224, R 336.1225, R 336.1702(a))**

2. The permittee shall keep a record of the date and time of all temperature alarms occurring during foam production and of the corrective actions taken and shall compile the record on a weekly basis. The permittee shall keep the record on file at the facility and make it available to the Department upon request. **(R 336.1224, R 336.1702(a))**

VII. REPORTING

1. Within 30 days after completion of the installation of EUOVEN14 authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing,

of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EUOVEN14. **(R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVOVEN01	13.2[1]	46[1]	R 336.1225
2. SVOVEN02	9[1]	46[1]	R 336.1225
3. SVOVEN03	9[1]	46[1]	R 336.1225
4. SVOVEN04	9[1]	46[1]	R 336.1225
5. SVOVEN05	9[1]	46[1]	R 336.1225
6. SVOVEN06	11.8	46	R 336.1225 40 CFR 52.21(c) and (d)
7. SVOVEN07	9[1]	46[1]	R 336.1225
8. SVOVEN08	8.9[1]	46[1]	R 336.1225
9. SVOVEN09	8.9[1]	46[1]	R 336.1225
10. SVOVEN10	9	60	R 336.1225 40 CFR 52.21(c) and (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
11. SVOVEN11	8.9	60	R 336.1225 40 CFR 52.21(c) and (d)
12. SVOVEN13	18[1]	60[1]	R336.1225
13. SVOVEN14	6[1]	75[1]	R 336.1225 40 CFR 52.21(c) and (d)
14. SVOven6Preheat	16	46	R 336.1225 40 CFR 52.21(c) and (d)
15. SVOven10Preheat	8	48	R 336.1225, 40 CFR 52.21(c) and (d)
16. SVOven11Preheat	8	46	R 336.1225 40 CFR 52.21(c) and (d)
17. SVOven13Preheat	16	50	R 336.1225 40 CFR 52.21(c) and (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FGPARTICULATE
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Plastic milling operations and plastic storage silos.

Emission Unit: EUMILL01, EUMILL02, EUMILL03, EUMILL04, EUMILL05, EUMILL06, EUSILO01, EUSILO02, EUSILO03, EUSILO04, EUSILO05, EUSILO06, EUSILO07, EUSILO08, EUSILO09, EUSILO10, EUSILO11, EUSILO12, EUEXTRUDER, EUBIN1, EUBIN2, EUBIN3

POLLUTION CONTROL EQUIPMENT

Particulate Filters on each silo, mill, and storage bin.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.1 pounds per 1,000 pounds of exhaust gasses, calculated on a dry gas basis.	NA	FGPARTICULATE	SC VI.1, VI.2	R 336.1331(1)(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall perform semiannual and annual maintenance as specified in Appendix 3. The permittee shall keep the maintenance records on file at the facility and make them available to the Department upon request. **(R 336.1213(3))**

2. The permittee shall perform and record a visible emission check on the silos when loading. If visible emissions are observed the system shall be checked and a record of maintenance activities shall be kept. **(R 336.1301, R 336.1331)**

VII. REPORTING

1. Within 30 days after completion of the installation of EUEXTRUDER, EUMILL, EUBIN1, EUBIN2, and EUBIN3, authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EUEXTRUDER, EUMILL, EUBIN1, EUBIN2, and EUBIN3. **(R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

APPENDIX 3. Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in FGPARTICULATE.

Preventative Maintenance Plan

Grinding Mills:

Annual

Check electrical connections on mill
Check mechanical connections on mill
Check electrical connections on sifter
Check mechanical connections on sifter
Check electrical connections on cyclone
Check mechanical connections on cyclone
Check electrical connections in control panel
Check mechanical connections in control panel
Grease bearings on mill motor
Grease bearings on fan motor
Grease bearings on sifter motor

Semiannual

Grease bearings on sifter
Grease bearings on mill
Clean cooling fan on mill motor
Clean cooling fan on gate motor
Clean cooling fan on fan motor
Check belt on mill for wear and tension
Check belt on sifter for wear and tension
Check chains and sprockets on gate for wear and alignment
Change oil in gate gear box 90wt.
Check all cloth sleeves for wear
Clean interior of control panel
Clean filter on loader
Check operation of asco valves
Check blade gap and alignment
Clean screens on mill back
Clean screens on sifter
Check screens on sifter for holes and tautness
Check bag filters for leaks
Resin Silos:

Semiannual

Check oil, change if needed
Clean filters on loaders
Fill airline oilers
Clean unit complete
Check belts for tension and alignment
Check all electrical connections
Check all mechanical connections
Clean electric cabinet
Check for air leaks
Check chain and sprockets on rotary airlock
Check oil in gearbox on rotary airlock

Check all indicator lights
Grease pumps
Grease motor
Check silo lights
Record hour meter reading