

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

September 6, 2024

PERMIT TO INSTALL
162-11C

ISSUED TO
Gokoh Coldwater, Inc. (GCI)

LOCATED AT
100 Concept Drive
Coldwater, Michigan 49036

IN THE COUNTY OF
Branch

STATE REGISTRATION NUMBER
N5904

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: August 19, 2024	
DATE PERMIT TO INSTALL APPROVED: September 6, 2024	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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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 ₂ e	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 ₂ S	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
EUSHELLCORE	Eleven (11) shell core machines with horizontal exhaust to ambient air.	12/2/2011	NA
EUSILOS	Sand Storage Silos, two at 75 tons capacity each, sand handling, and two sand mixers (sand is mixed with resin) with a fabric filter dust collection system, Dust Collector #1, 8,500 cfm. Includes transfer of sand from trucks to the silo and pneumatic sand feed through enclosed piping from the silo.	12/2/2011	NA
EULAEMPE1AND2	Two Laempe cold box core machines Phenolic Urethane Cold Box core making process. Mixed sand/resin is set to make cores. Triethylamine (TEA) catalyst. Emission control is two Dakota acid scrubbers, 3,850 cfm each Equipment includes two Laempe core making machines and two natural gas-fired core ovens, 1.5 MMBtu/hr each, 1.33 tons/hr cores nominal throughput capacity	12/2/2011	NA
EUMISC	Use of materials ancillary to the core making process including daub/mud, glue/paste, coating, core box release agent, and metal cleaners	12/2/2011	NA

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.

EUSHELLCORE EMISSION UNIT CONDITIONS

DESCRIPTION

Eleven (11) shell core machines with horizontal exhaust to ambient air.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	1.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUSHELLCORE	SC VI.1	R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall calculate the VOC emission rates from EUSHELLCORE for each calendar month and 12-month rolling time period using a method acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1702)**

VII. REPORTING

NA

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. SVSHELLCORE ^A	24	14	40 CFR 52.21(c) & (d)
^A Exhaust is vented horizontally to the ambient air			

IX. OTHER REQUIREMENT(S)

NA

EUSILOS EMISSION UNIT CONDITIONS

DESCRIPTION

Sand Storage Silos, two at 75 tons capacity each, sand handling, and two sand mixers (sand is mixed with resin) with a fabric filter dust collection system, Dust Collector #1, 8,500 cfm.

Includes transfer of sand from trucks to the silo and pneumatic sand feed through enclosed piping from the silo.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Fabric filter dust collection system, Dust Collector #1, 8500 cfm.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.10 lb/1,000 lb exhaust gas	Hourly	EUSILOS	SC VI.5, VI.6	R 336.1331
2. PM	2.50 tpy	12-month rolling time period as determined at the end of each calendar month	EUSILOS	SC VI.4	R 336.1331

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Sand	25,000 tons/yr throughput	12-month rolling time period as determined at the end of each calendar month	EUSILOS	SC VI.1	R 336.1205(3), R 336.1331

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EUSILOS unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the sand storage and handling operations, has been submitted within 90 days of permit issuance, and is implemented and maintained. **(R 336.1331, R 336.1910, R 336.1911, 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUSILOS unless the fabric filter system is installed, maintained, and operated in a satisfactory manner. **(R 336.1205(3), R 336.1301, R 336.1331, R 336.1910)**
2. The permittee shall not operate EUSILOS unless a gauge, which continuously measures the pressure drop across the fabric filter dust collection system is installed, maintained and operated in a satisfactory manner. **(R 336.1301, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall monitor and record, in a satisfactory manner, the sand usage for EUSILOS on a monthly and 12-month rolling time period basis. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205, R 336.1301, R 336.1331)**
2. The permittee shall monitor and record, in a satisfactory manner, the pressure drop across the EUSILOS fabric filter dust collection system on an each operational day basis. **(R 336.1301, R 336.1331, R 336.1910)**
3. The permittee shall keep, in a satisfactory manner, all daily records of the EUSILOS fabric filter dust collection system pressure drop, as required by SC VI.2 on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1910)**
4. The permittee shall calculate the PM emission rates from EUSILOS for each calendar month and 12-month rolling time period using a method acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1331)**
5. The permittee shall verify the presence of visible emissions while transferring sand from delivery trucks into silos, by taking six-minute visible emission readings from EUSILOS a minimum of once per week. Either a certified or non-certified reader shall take each visible emission reading during routine operating conditions. Multiple stacks may be observed simultaneously. If the permittee observes any visible emissions, the permittee shall immediately implement the following procedures: **(R 336.1301, R 336.1303)**
 - a) The permittee shall perform the six-minute visible emission readings at least once every 30 minutes until emissions are no longer visible or until emissions have been observed for more than two hours.
 - b) If visible emissions have been observed for more than two hours, a certified reader shall determine the opacity using Federal Reference Test Method 9. **(40 CFR Part 60, Appendix A)**
 - c) If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard specified in GC 11, the permittee shall immediately initiate corrective actions.
6. The permittee shall keep, in a satisfactory manner, records of all visible emission readings from EUSILOS. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1303, R 336.1910)**

VII. REPORTING

NA

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. SVSILOS	18	25	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

**EULAEMPE1AND2
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Two Laempe cold box core machines.

Phenolic Urethane Cold Box core making process. Mixed sand/resin is set to make cores. TEA catalyst. Emission control is two Dakota acid scrubbers, 3,850 cfm each.

Equipment includes two Laempe core making machines and two natural gas-fired core ovens, 1.5 MMBtu/hr each, 1.33 tons/hr cores nominal throughput capacity.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

The TEA catalyst emissions controlled by two Dakota packed tower acid scrubbers, 3,850 cfm each.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	1.54 tpy	12-month rolling time period as determined at the end of each calendar month	EULAEMPE1AND2	SC VI.3.	R 336.1702
2. TEA (Triethylamine)	1.1 tpy	12-month rolling time period as determined at the end of each calendar month	EULAEMPE1AND2	SC VI.3.	R 336.1224, R 336.1225 ¹

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Total Resins Combined (Parts A, B & C)	306 tons/yr	12-month rolling time period as determined at the end of each calendar month	EULAEMPE1AND2	SC VI.1	R 336.1702
2. TEA Catalyst	54 tons/yr throughput	12-month rolling time period as determined at the end of each calendar month	EULAEMPE1AND2	SC VI.1	R 336.1702

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only natural gas in the core ovens of EULAEMPE1AND2. **(R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**
2. The permittee shall not operate EULAEMPE1AND2 unless a MAP as described in Rule 911(2), for the core making operations, has been submitted within 90 days of permit issuance, and is implemented and maintained. The MAP shall include a pressure drop range for the packed tower scrubber to define proper operation of the control equipment. If at any time the MAP fails to address or inadequately addresses an

event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the AQD District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1225, R 336.1331, R 336.1702(a), R 336.1910, R 336.1911, 40 CFR 52.21(c) & (d))**

3. The permittee shall not operate EULAEMPE1AND2 unless the packed tower scrubber system three-hour average pH of the scrubber blowdown, as measured by a continuous parameter monitoring system, does not exceed 4.5 OR the pH of the scrubber blowdown, as measured once every 8 hours during process operations, does not exceed 4.5. **(R 336.1225, R 336.1702, R 336.1910)**
4. The permittee shall not operate EULAEMPE1AND2 unless the packed tower scrubber system three-hour average scrubbing liquid flow rate is maintained at or above the minimum level established during the last approved stack test. **(R 336.1225, R 336.1702, R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EULAEMPE1AND2 unless the packed tower scrubber system is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1301, R 336.1331, R 336.1225, R 336.1702)**
2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, devices to monitor the scrubber solution flow rate and the pressure drop across the scrubber on a continuous basis when EULAEMPE1AND2 is in operation, and record the data once each operating work shift. The permittee shall maintain and operate a device to measure the scrubber solution pH during operation of EULAEMPE1AND2 and record the data once per operating work shift. The permittee shall perform a semiannual calibration on the pH indicator or more frequent if needed and record calibration results in the maintenance log. **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1702, R 336.1910, 40 CFR 52.21)**

V. TESTING/SAMPLING

1. Upon request from the AQD District Supervisor, the permittee shall verify VOC and TEA emission rates from the acid scrubbers that control emissions from EULAEMPE1AND2, by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Subpart A. An alternate method, or a modification to the approved EPA 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 336.1205, 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 monitor and record, in a satisfactory manner, the resins (separately and combined) and catalyst usage for EULAEMPE1AND2 on a monthly and 12-month rolling time period basis. **(R 336.1205, R 336.1301, R 336.1331, R 336.1702)**
2. The permittee shall monitor and record the scrubber solution flow rate and the pressure drop across the scrubber in a satisfactory manner on a continuous basis and monitor the scrubber solution pH once per work shift when EULAEMPE1AND2 is in operation, and record the data once each operating work shift. **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1702, R 336.1910, 40 CFR 52.21)**

- 3. The permittee shall calculate the VOC and TEA emission rates from EULAEMPE1AND2 for each on a monthly and 12-month rolling time period using a method acceptable to the AQD District Supervisor. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702)**
- 4. The permittee shall maintain a log of all calibrations conducted on the control device for EULAEMPE1AND2. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1331, R 336.1702, 40 CFR 52.21)**

VII. REPORTING

NA

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. SVLAEMPE#1	20	52	R 336.1225
2. SVLAEMPE#2	20	51	R 336.1225
3. SVLaempeOven1	26	52	R 336.1225
4. SVLaempeOven2	11	53	R 336.1225

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**EUMISC
EMISSION UNIT CONDITIONS**

DESCRIPTION

Use of materials ancillary to the core making process including daub/mud, glue/paste, coating, core box release agent, and metal cleaners

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	22.1 tpy	12-month rolling time period as determined at the end of each calendar month	Equipment within EUMISC	SC VI.1, SC VI.3, SC VI.4	R 336.1702
2. high molecular wt. silicon (CAS 63148-62-9)	5.88 tpy	12-month rolling time period as determined at the end of each calendar month	Equipment within EUMISC	SC VI.2, SC VI.3, SC VI.5	R 336.1225 ¹

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall handle all VOC and/or HAP containing materials, including coatings, reducers, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall monitor and record, in a satisfactory manner, the VOC content of each material included in EUMISC. A Material Safety Data Sheet or other manufacturer's certification acceptable to the AQD District Supervisor is a satisfactory record. **(R 336.1205, R 336.1702)**

2. The permittee shall monitor and record, in a satisfactory manner, the high molecular weight silicon (CAS 63148-62-9) content of each material included in EUMISC. A Material Safety Data Sheet or other manufacturer's certification acceptable to the AQD District Supervisor is a satisfactory record.¹ **(R 336.1225)**
3. The permittee shall monitor and record, in a satisfactory manner, the usage rate in gallons on a monthly and 12-month rolling time period basis of each material included in EUMISC. **(R 336.1205, R 336.1702)**
4. The permittee shall calculate and keep records of the VOC emission rates from EUMISC for each 12-month rolling time period using a method acceptable to the AQD District Supervisor. **(R 336.1205, R 336.1702)**
5. The permittee shall calculate and keep records of the high molecular weight silicon (CAS 63148-62-9) emission rates from EUMISC for each 12-month rolling time period using a method acceptable to the AQD District Supervisor.¹ **(R 336.1225)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

Footnotes:

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

FGFACILITY CONDITIONS

DESCRIPTION

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

POLLUTION CONTROL EQUIPMENT

Sand storage and handling particulate matter emission control is a fabric filter dust collection system. TEA catalyst emission control is two Dakota packed tower acid scrubbers, 3,850 cfm each.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Individual HAPs	8.9 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)
2. Aggregate HAPs	22.4 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(3))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer’s formulation or other documentation that provides information on the HAP content of the materials used. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (3), R 336.1224, R 336.1225)**

3. The permittee shall keep the following information on a calendar month basis for FGFACILITY:
- a) Gallons or pounds of each HAP containing material used.
 - b) Where applicable, gallons or pounds of each HAP containing material reclaimed.
 - c) HAP content, in pounds per gallon or pounds per pound, of each HAP containing material used.
 - d) Individual and aggregate HAP emission calculations determining the monthly emission rate of each in tons per calendar month.
 - e) Individual and aggregate HAP emission calculations determining the annual emission rate of each in tons per 12-month rolling time period as determined at the end of each calendar month. For the first month following permit issuance, the calculations shall include the summation of emissions from the 11-month period immediately preceding the issuance date. For each month thereafter, calculations shall include the summation of emissions for the appropriate number of months prior to permit issuance plus the months following permit issuance for a total of 12 consecutive months.

The permittee shall keep the records using mass balance, or an alternative format acceptable to the AQD District Supervisor. The permittee shall keep the records on file at the facility and make them available to the Department upon request. (R 336.1205(1)(a) & (3), R 336.1224, R 336.1225)

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA