

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

JUNE 28, 2021

**PERMIT TO INSTALL
530-96G**

**ISSUED TO
QUIKRETE-FLINT**

**LOCATED AT
14311 CMI DRIVE
HOLLY, MICHIGAN 48442**

**IN THE COUNTY OF
OAKLAND**

**STATE REGISTRATION NUMBER
B1945**

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: May 14, 2021	
DATE PERMIT TO INSTALL APPROVED: June 28, 2021	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 _{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 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 condition 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
EU-Dryer	A natural gas-fired rotary sand dryer and associated handling equipment. Emissions from EU-Dryer are controlled by a baghouse dust collector.	August 1977/ November 1998/ August 2002/ April 2007/ February 19, 2021	NA
EU-Mixnbag	Sand hoppers, scale feed and mixing of raw materials done via two side by side Voeller turbine mixers, and a twin spout air packer, manual bag feed by operator, automatic full bag discharge to pallet feed conveyor. The sand hoppers, scale and mixers are located within a building. Emissions from these processes are ducted to the EU-MixnBag fabric filter dust collector.	August 1977/ November 1998/ April 2007/ June 28, 2021	NA
EU-Process	Process equipment associated with the handling, transporting, and mixing of raw materials to make the final product. The palletizing conveyor, the bin storage conveyor, the recycle elevator, the pallet feed conveyor, and the automatic palletizer portions of the process equipment are all located within a building and are controlled by the EU-Process baghouse.	August 1977/ November 1998/ April 2007/ September 15, 2010/ February 19, 2021/ June 28, 2021	NA
EU-Truck Traffic	Truck traffic for delivery of raw cement products to processing equipment for final product and truck traffic associated with the delivery of the final product.	August 1977/ November 1998/ April 2007	FG-Fugitive
EU-Storage	Open area stockpiles for wet sand product.	August 1977/ November 1998/ April 2007	FG-Fugitive

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.

**EU-Dryer
EMISSION UNIT CONDITIONS**

DESCRIPTION

A natural gas-fired rotary sand dryer and associated handling equipment. Emissions from EU-Dryer are controlled by a baghouse dust collector.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Baghouse Dust Collector (DC5)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.01 grains/dscf ^a	Hourly	EU-Dryer	GC 13	R 336.1331
^a corrected to 70°F and 29.92 inches Hg					

2. Visible emissions from EU-Dryer shall not exceed a six-minute average of 10 percent opacity. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**

II. MATERIAL LIMIT(S)

1. The permittee shall only burn natural gas in EU-Dryer. **(R 331.301, R 336.1331, R 336.1702, R 336.1901, 40 CFR 52.21(c) & (d))**
2. The permittee shall not process any asbestos tailing or asbestos containing waste materials in EU-Dryer pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61 Subpart M. **(R 336.1224, R336.1225, R 336.1901, 40 CFR Part 61 Subpart M)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-Dryer unless a malfunction abatement plan (MAP) as described in Rule 911(2), for aggregate drying, has been submitted within 45 days of permit issuance, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

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 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 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-Dryer unless the baghouse dust collector is installed, maintained, and operated in a satisfactory manner. Satisfactory operation is defined as maintaining a pressure drop between 0.2 and 5.8 inches of water across the dust collector. **(R 336.1205, R 336.1224, R 336.1225, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) and (d))**
2. The permittee shall install, calibrate, maintain and operate in manner acceptable to the AQD District Supervisor, a device to monitor the pressure drop for EU-Dryer on a continuous basis. **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) & (d))**

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 complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.2803, R 336.2804, 40 CFR 52.21 Subparts (c) & (d))**
2. The permittee shall monitor and record, in a manner acceptable to the AQD District Supervisor, the pressure drop across the baghouse dust collector on a daily basis. **(R 336.1205, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) & (d))**

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. SV004	30.25 x 20.375	33	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. Within 45 days of issuance of this permit, the permittee shall label all equipment, control devices and monitoring devices associated with EU-Dryer, according to the company identification numbers shown on the equipment list in Appendix B with a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**

Footnotes:

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

**EU-MixnBag
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Sand hoppers, scale feed and mixing of raw materials done via two side by side Voeller turbine mixers, and a twin spout air packer, manual bag feed by operator, automatic full bag discharge to pallet feed conveyor. The sand hoppers, scale and mixers are located within a building. Emissions from these processes are ducted to the EU-MixnBag fabric filter dust collector.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

EU-MixnBag Baghouse Dust Collector (DC6)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.01 grains/dscf ^a	Hourly	EU-MixnBag	GC 13	R 336.1331
^a corrected to 70°F and 29.92 inches Hg					

2. Visible emissions from EU-MixnBag shall not exceed a six-minute average of 10 percent opacity. (R 336.1301, R 336.1303, R 336.1331, 40 CFR 52.21 (c) & (d))

II. MATERIAL LIMIT(S)

1. The permittee shall not process any asbestos tailing or asbestos containing waste materials in EU-MixnBag pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61 Subpart M. (R 336.1224, R336.1225, R 336.1901, 40 CFR Part 61 Subpart M)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-MixnBag unless the baghouse dust collector is installed, maintained, and operated in a satisfactory manner. Satisfactory operation is defined as maintaining a pressure drop between 0.2 and 5.8 inches of water across the dust collector. (R 336.1205, R 336.1224, R 336.1225, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) and (d))

2. The permittee shall install, calibrate, maintain and operate in manner acceptable to the AQD District Supervisor, a device to monitor the pressure drop for EU-MixnBag on a continuous basis. (R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) & (d))

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 complete all required record keeping in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21 (c) & (d))**
2. The permittee shall monitor and record, in a manner acceptable to the AQD District Supervisor, the pressure drop across the baghouse dust collector on a daily basis. **(R 336.1205, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) & (d))**

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. SV005	27.5 x 18.5	23.0	R 336.1901, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. Within 45 days of issuance of this permit, the permittee shall label all equipment, control devices and monitoring devices associated with EU-MixnBag, according to the company identification numbers shown on the equipment list in Appendix B with a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**

Footnotes:

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

**EU-Process
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Process equipment associated with the handling, transporting, and mixing of raw materials to make the final product. The palletizing conveyor, the bin storage conveyor, the recycle elevator, the pallet feed conveyor, and the automatic palletizer portions of the process equipment are all located within a building and are controlled by the EU-Process baghouse.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

EU-Process Baghouse Dust Collector (DC1)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.01 grains/dscf ^a	Hourly	Bin Storage Conveyor and Storage Feed Elevator	GC 13	R 336.1331
^a corrected to 70°F and 29.92 inches Hg					

- The permittee shall not operate any portion of EU-Process unless each portion of EU-Process meets its specific opacity limit as listed in Appendix B of this permit. **(R 336.1301, 40 CFR 52.21 (c) & (d))**
- Visible emissions from the drop point portions of EU-Process shall not exceed ten percent opacity. **(R 336.1301, 40 CFR 52.21 (c) & (d))**

II. MATERIAL LIMIT(S)

- The permittee shall not process any asbestos tailing or asbestos containing waste materials in EU-Process pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61 Subpart M. **(R 336.1224, R336.1225, R 336.1901, 40 CFR Part 61 Subpart M)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not process more than 1000 tons of materials per day nor 150,000 tons of materials per 12-month rolling time period, as determined at the end of each calendar month, through EU-Process. **(R 336.1901, 40 CFR 52.21 (c) & (d))**
- The permittee shall not operate EU-Process unless the program for continuous fugitive emissions control for all material handling operations specified in Appendix A has been implemented and is maintained. **(R 336.1371, R 336.1372, R 336.1901, 40 CFR 52.21 (c) & (d), Act 451 324.5521)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any portion of EU-Process unless the equipment's specified control device is installed, maintained, and operated in a satisfactory manner as listed in Appendix B of this permit. **(R 336.1301, R 336.1303, R 336.1901, R 336.1910, 40 CFR 52.21 (c) & (d))**
2. Within 45 days of issuance of this permit, the permittee shall label all equipment, control devices and monitoring devices associated with EU-Process, according to the company identification numbers shown on the equipment list in Appendix B with a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**
3. The permittee shall install, calibrate, maintain and operate in manner acceptable to the AQD District Supervisor, a device to monitor the pressure drop for the EU-Process baghouse dust collector on a continuous basis. **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

1. Within 180 days of each front-end loader bucket capacity alteration or replacement, the permittee shall determine and record the average maximum weight capacity of material per front-end loader bucket, in pounds or tons, in a format acceptable to the AQD District Supervisor by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed in the presence of an AQD field inspector. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD District Supervisor. The AQD must approve the final plan prior to testing, including any modifications to the test plan that are proposed after initial submittal. The permittee shall notify the AQD District Supervisor not less than 15 days before, of the time and place before performance tests are conducted. The permittee must submit a complete report of the test results to the AQD Southeast District Supervisor within 60 days following the last date of the test. **(R 336.1901, 40 CFR 52.21 (c) & (d))**

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 record keeping in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21 (c) & (d))**
2. The permittee shall keep daily records of visible emissions, in percent opacity, to demonstrate compliance with each opacity limit specified in the Appendix B. The visual emission observations may be conducted by a non-certified observer. If during the observation there are any visible emissions detected, a USEPA Method 9 certified visible emissions observation shall be conducted for a minimum of 15 minutes to determine the actual opacity from that emission point. If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard specified in Appendix B, the permittee shall immediately initiate corrective actions. The permittee shall keep records of the non-certified observations and USEPA Method 9 observations on file at the facility in a format acceptable to the AQD District Supervisor and shall make them available to the Department upon request. **(R 336.1301, R 336.303, R 336.1901, R 336.1910, 40 CFR 52.21 (c) & (d))**
3. The permittee shall keep daily and monthly records of the number of front-end loader buckets of material introduced into the dryer. The permittee shall record each front-end loader bucket of material introduced into the dryer as one (1) bucket regardless of the actual amount of material in the front-end loader bucket. The permittee shall keep all records on file at the facility in a format acceptable to the AQD District Supervisor and shall make them available to the Department upon request. **(R 336.1301, R 336.303, R 336.1901, R 336.1910, 40 CFR 52.21 (c) & (d))**

4. The permittee shall calculate and record the amount of material processed through EU-Process tons of material per day, month and 12-month rolling time period as determined at the end of each calendar month by using the average maximum front-end loader capacity determined per SC V.1 and the number of front-end loader buckets per day, month, and 12-month rolling time period. The permittee shall keep all records on file at the facility in a format acceptable to the AQD District Supervisor and shall make them available to the Department upon request. **(R 336.1301, R 336.303, R 336.1901, R 336.1910, 40 CFR 52.21 (c) & (d))**
5. The permittee shall monitor and record, in a manner acceptable to the AQD District Supervisor, the pressure drop across the EU-Process baghouse dust collector on a daily basis. **(R 336.1205, R 336.1301, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) & (d))**

VII. REPORTING

1. Within 10 calendar days of any alteration to the front-end loader capacity or replacement of the front-end loader bucket, the permittee shall notify the AQD District Supervisor, in writing, of the alteration or replacement. **(R 336.1901, 40 CFR 52.21 (c) & (d))**

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. SV002*	27.5 x 18.5	23.0	R 336.1901, 40 CFR 52.21(c) & (d)
*This stack exhausts horizontally.			

IX. OTHER REQUIREMENT(S)

1. Within 45 days of issuance of this permit, the permittee shall label all equipment, control devices and monitoring devices associated with EU-Process, according to the company identification numbers shown on the equipment list in Appendix B with a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**

Footnotes:

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

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
FG-Fugitive	All onsite truck and loader traffic and material storage piles associated with the operation of the facility.	EU-Truck Traffic, EU-Storage

FG-Fugitive FLEXIBLE GROUP CONDITIONS
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DESCRIPTION

All on sight truck and loader traffic and material storage piles associated with the operation of the facility.

Emission Unit: EU-Truck Traffic and EU-Storage

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FG-Fugitive unless the program for continuous fugitive emissions control for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix A has been implemented and is maintained. **(R 336.1371, R 336.1372, R 336.1901, 40 CFR 52.21 (c) & (d), Act 451 324.5521)**

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))**

NA

VII. REPORTING

NA

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 A

Fugitive Dust Control Plan

I. Plant

The drop distance at each transfer point throughout the plant shall be reduced to the minimum the equipment can achieve.

II. Truck Traffic

On-site vehicles shall be loaded to prevent their contents from dropping, leaking, blowing, or otherwise escaping. This shall be accomplished by loading so that no part of the load shall come in contact within six inches of the top of any sideboard, side panel or tailgate, otherwise, the truck shall be tarped.

III. Site Roadways and the Plant Yard

- (a) The dust on the site roadways and the plant yard shall be controlled by applications of water, calcium chloride or other acceptable and approved fugitive dust control compounds. Applications of dust suppressants shall be done as often as necessary to meet an opacity limit of five percent.
- (b) All paved roadways and the plant yards shall be swept as needed between applications of dust suppressants.
- (c) Any material spillage on roads shall be cleaned up immediately.
- (d) A record of all applications of dust suppressants and roadway and the plant yard sweepings shall be kept on file for the most recent five-year period and be made available to the AQD upon request.

IV. Storage Piles

- (a) Stockpiling of all nonmetallic minerals shall be performed to minimize drop distance and control potential dust problems.
- (b) Stockpiles shall be watered on an as needed basis in order to meet an opacity limit of five percent. Equipment to apply water or dust suppressant shall be available at the site, or on call for use at the site, within a given operating day.
- (c) A record of all watering shall be kept on file for the most recent five-year period and be made available to the AQD upon request.

V. AQD/EGLE Inspection

The provisions and procedures of this plan are subject to adjustment by written notification from the AQD, if following an inspection, the AQD finds the fugitive dust requirements and/or the permitted opacity limits are not being met.

APPENDIX B
Equipment List

Equipment Description	ID Number	Opacity Limit (%)*	Control Device
Wet Sand Feeder	V1	10	NA
Wet Sand Feed Conveyor	C1	10	NA
Silica Storage Conveyor	C2	10	NA
Palletizing Conveyor	C3	No Visible Emissions	Enclosed within a building
Bin Storage Conveyor enclosure	C4	No Visible Emissions	Enclosed within a building
Bin Storage Conveyor control device	DC1	10	Process Baghouse
Dried Sand Exit Conveyor	C7	10	Dryer Baghouse
Silo Kiln Elevator	E1	10	Partially Enclosed
Storage Feed Elevator	E2	10	Process Baghouse
Silica Feed Elevator	E3	10	Enclosure
Recycle Elevator	E4	No Visible Emissions	Enclosed within a building
Pallet Feed Conveyor	C8	No Visible Emissions	Enclosed within a building
Automatic Palletizer	P1	No Visible Emissions	Enclosed within a building
Mixnbag Baghouse	DC6	10	Mixnbag Baghouse
Mixnbag Baghouse Pressure Drop Monitoring Gauge	MD4	NA	Mixnbag Baghouse
Loader Bucket No.1	LB1	NA	NA
Dryer Baghouse	DC5	10	Dryer Baghouse
Dryer Baghouse Pressure Drop Monitoring Gauge	MD7	NA	Dryer Baghouse
Process Baghouse (controls Bin Storage Conveyor and Storage Feed Elevator)	DC1	10	Process Baghouse
Process Baghouse Pressure Drop Monitoring Gauge	MD3	NA	Process Baghouse