

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

March 13, 2020

PERMIT TO INSTALL
165-19

ISSUED TO
Akzo Nobel Coatings, Inc.

LOCATED AT
120 Franklin Road
Pontiac, Michigan 48341

IN THE COUNTY OF
Oakland

STATE REGISTRATION NUMBER
B4145

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: February 27, 2020	
DATE PERMIT TO INSTALL APPROVED: March 13, 2020	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))	Flexible Group ID
EU-MixStation1	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation2	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation3	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation4	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation5	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation6	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation7	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation8	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation9	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-MixStation10	Equipment for making batch sizes from 200 gallons to 500 gallons, including a mixer station, portable tanks up to 500 gallons in capacity, and a dust pick-up at the mixer station exhausting to a shared dust collector.	FG-Marine
EU-ContainerFill	Container filling area for the specialty marine and protective coatings process.	FG-Marine

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
FG-Marine	Equipment to prepare specialty marine and protective coatings, consisting of ten mixing stations and related equipment, a container filling area, and a shared baghouse dust collector.	EU-MixStation1, EU-MixStation2, EU-MixStation3, EU-MixStation4, EU-MixStation5, EU-MixStation6, EU-MixStation7, EU-MixStation8, EU-MixStation9, EU-MixStation10, EU-ContainerFill

**FG-Marine
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Equipment to prepare specialty marine and protective coatings, consisting of ten mixing stations and related equipment, a container filling area, and a shared baghouse dust collector.

Emission Unit: EU-MixStation1, EU-MixStation2, EU-MixStation3, EU-MixStation4, EU-MixStation5, EU-MixStation6, EU-MixStation7, EU-MixStation8, EU-MixStation9, EU-MixStation10, EU-ContainerFill

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector (DC-Marine)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.20 lb per ton of solids charged	Hourly	FG-Marine, while charging solids	SC VI.2	R 336.1331
2. VOC	5.9 tpy	12-month rolling time period as determined at the end of each calendar month	FG-Marine	SC VI.3	R 336.1205(1)(a), R 336.1702(a)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Coatings produced	3,000,000 gallons per year	12-month rolling time period as determined at the end of each calendar month	FG-Marine	SC VI.4	R 336.1205(1)(a), R 336.1702(a)
2. VOC content of batches produced	3,600 lb per batch	Each batch	FG-Marine	SC VI.5	R 336.1205(1)(a), R 336.1225
3. VOC content of batches produced	17,938 lb per production cycle (10 batches)	Any ten batches processed concurrently* in a calendar day	FG-Marine	SC VI.6	R 336.1205(1)(a)
4. Hexylene glycol (CAS Number 107-41-5)	1,050 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225
5. Colophony (CAS Number 8050-09-7)	0.90 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225
6. Copper content of compounds containing copper	1,580 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225

	Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
7.	Barium sulfate (CAS Number 7727-43-7)	39,600 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225
8.	Hexamethylene diisocyanate (CAS Number 822-06-0)	21.0 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225
9.	Mica (CAS Number 12001-26-2)	23,750 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225
10.	Dimethylaniline (CAS Number 121-69-7)	38,600 lb charged per year ¹	12-month rolling time period as determined at the end of each calendar month	FG-Marine	SC VI.9	R 336.1225
11.	Naphthalene (CAS Number 91-20-3)	36,350 lb charged per year ¹	12-month rolling time period as determined at the end of each calendar month	FG-Marine	SC VI.9	R 336.1225
12.	Styrene (CAS Number 100-42-5)	1,030 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225(2), R 336.1227(2)
13.	Styrene (CAS Number 100-42-5)	909,400 lb charged per year ¹	12-month rolling time period as determined at the end of each calendar month	FG-Marine	SC VI.9	R 336.1225(2)
14.	Phenol (CAS Number 108-95-2)	13,300 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225
15.	Benzene (CAS Number 71-43-2)	51.0 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225(2), R 336.1227(2)
16.	Benzene (CAS Number 71-43-2)	45,450 lb charged per year ¹	12-month rolling time period as determined at the end of each calendar month	FG-Marine	SC VI.9	R 336.1225(2)
17.	Cumene (CAS Number 98-82-8)	51.0 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225(2), R 336.1227(2)
18.	Cumene (CAS Number 98-82-8)	45,450 lb charged per year ¹	12-month rolling time period as determined at the end of each calendar month	FG-Marine	SC VI.9	R 336.1225(2)
19.	Siloxanes and silicones (silica filled polydimethylsiloxane, CAS Number 67762-90-7)	569 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225, R 336.1227(2)
20.	Nickel (CAS Number 7440-02-0)	34.0 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225(2), R 336.1227(2)
21.	Arsenic (CAS Number 7440-38-2)	1.14 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225(2), R 336.1227(2)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
22. Cadmium (CAS Number 7440-43-9)	3.41 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225(2), R 336.1227(2)
23. Chromium (CAS Number 7440-47-3)	0.473 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225(2), R 336.1227(2)
24. Chlorendic acid (CAS Number 115-28-6)	20.2 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225, R 336.1227(2)
25. Chlorite-group minerals (CAS Number 1318-59-8)	12,670 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225
26. Aluminum hydroxide (CAS Number 21645-51-2)	15,844 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225
27. Chromium iron oxide (CAS Number 12737-27-8)	11,800 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225
28. Benzenesulfonamide, N-ethyl-2-methyl (CAS Number 1077-56-1)	6,880 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225, R 336.1227(2)
29. N-Ethyltoluene-sulfonamide (CAS Number 8047-99-2)	6,880 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225, R 336.1227(2)
30. Ethyl p-toluene sulfonamide (CAS Number 80-39-7)	6,880 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225, R 336.1227(2)
31. Total sulfonamides (CAS Numbers 1077-56-1, 8047-99-2, and 80-39-7)	6,880 lb charged per 8-hour shift ¹	Each 8-hour shift	FG-Marine	SC VI.9	R 336.1225, R 336.1227(2)
32. Phenol, 4-(1,1-dimethylethyl)-, phosphate (3:1) (CAS Number 78-33-1)	520 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225, R 336.1227(2)
33. Total of CAS Numbers 78-33-1, 56803-37-3, 68937-40-6, and 65652-41-7	1,040 lb charged per hour ¹	Hourly	FG-Specialty	SC VI.9	R 336.1225, R 336.1227(2)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
34. Ethanol, 2-chloro-, phosphate (3:1) (CAS Number 115-96-8)	103 lb charged per hour ¹	Hourly	FG-Marine	SC VI.9	R 336.1225, R 336.1227(2)
35. Chlorinated paraffins (CAS Number 63449-39-8)	15.6 lb charged per hour ¹	Hourly	FG-Specialty	SC VI.9	R 336.1225, R 336.1227(2)
36. Alkanes, C14-17, Chloro (CAS Number 85535-85-9)	15.6 lb charged per hour ¹	Hourly	FG-Specialty	SC VI.9	R 336.1225, R 336.1227(2)
37. Total chlorinated paraffins (CAS Numbers 63449-39-8 and 85535-85-9)	15.6 lb charged per hour ¹	Hourly	FG-Specialty	SC VI.9	R 336.1225, R 336.1227(2)
38. Isopropylated Triphenyl Phosphate Mix (CAS Number 68937-41-7)	519 lb charged per hour ¹	Hourly	FG-Specialty	SC VI.9	R 336.1225, R 336.1227(2)
* For this requirement, all batches for which raw material charging begins during the same calendar day are considered to be "processed concurrently in a calendar day."					

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain all stationary and portable mixing tanks and high-speed dispersion mills in FG-Marine with covers that completely cover all openings except for those which are no larger than necessary to allow safe clearance for the mixer shaft. The openings shall be covered at all times except when operator access is necessary. In addition, all solvent containers shall be closed when not in use. **(R 336.1205(3), R 336.1702(a), R 336.1910)**
2. The permittee shall not charge solids to any equipment in FG-Marine unless the dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1910)**
3. The permittee shall equip and maintain the dust collector with a device to indicate the pressure drop across the dust collector. **(R 336.1910)**

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 and records in a format acceptable to the AQD District Supervisor 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, R 336.1702(a), R 336.1910)**
2. The permittee shall monitor and record, in a manner satisfactory to the AQD District Supervisor, the pressure drop across DC-Marine once each week during operations exhausting to DC-Marine. The permittee shall keep these records on file at the facility and make them available to the Department upon request. **(R 336.1910)**
3. The permittee shall calculate the VOC emission rate from FG-Marine monthly, for each calendar month and for the 12-month rolling time period ending that month, using a method acceptable to the AQD District Supervisor. The permittee shall use the emission factors below unless alternate factors or an alternate approach is approved by 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 336.1205, R 336.1702(a))**

	Pollutant and activity	Emission factor
a)	VOC, material charging and product filling	0.28 lb per ton of VOC used
b)	VOC, paint mixing	1.9 lb per ton of VOC used

4. The permittee shall record, in a manner satisfactory to the AQD District Supervisor, the quantity of coatings, in gallons, produced in FG-Marine during each calendar month and during the 12-month rolling time period ending that month. **(R 336.1205(1), R 336.1702(a))**
5. The permittee shall keep a record, in a manner satisfactory to the AQD District Supervisor, of the VOC content, in pounds, of each batch produced in FG-Marine. **(R 336.1205(1)(a))**
6. The permittee shall keep a record, in a manner satisfactory to the AQD District Supervisor, of the amount of VOC used in each ten batches processed concurrently in FG-Marine during each calendar day. **(R 336.1205(1)(a))**
7. The permittee shall keep a record, in a manner satisfactory to the AQD District Supervisor, of the total weight of materials charged, in pounds, for each batch produced in FG-Marine.¹ **(R 336.1225)**
8. The permittee shall keep a record, in a manner satisfactory to the AQD District Supervisor, of all materials used in FG-Marine, including the maximum concentration, by weight, of the following materials in each batch processed.¹ **(R 336.1225)**
 - a) Hexylene glycol (CAS Number 107-41-5)
 - b) Colophony (CAS Number 8050-09-7)
 - c) Copper content of all compounds containing copper
 - d) Barium sulfate (CAS Number 7727-43-7)
 - e) Hexamethylene diisocyanate (CAS Number 822-06-0)
 - f) Mica (CAS Number 12001-26-2)
 - g) Dimethylaniline (CAS Number 121-69-7)
 - h) Naphthalene (CAS Number 91-20-3)
 - i) Styrene (CAS Number 100-42-5)
 - j) Phenol (CAS Number 108-95-2)
 - k) Benzene (CAS Number 71-43-2)
 - l) Cumene (CAS Number 98-82-8)
 - m) Siloxanes and silicones (silica filled polydimethylsiloxane, CAS Number 67762-90-7)
 - n) Nickel (CAS Number 7440-02-0)
 - o) Arsenic (CAS Number 7440-38-2)
 - p) Cadmium (CAS Number 7440-43-9)
 - q) Chromium (CAS Number 7440-47-3)
 - r) Chlorendic acid (CAS Number 115-28-6)

- s) Chlorite-Group Minerals (CAS Number 1318-59-8)
- t) Aluminum hydroxide (CAS Number 21645-51-2)
- u) Chromium iron oxide (CAS Number 12737-27-8)
- v) Benzenesulfonamide, N-ethyl-2-methyl (CAS Number 1077-56-1)
- w) N-Ethyltoluenesulfonamide (CAS Number 8047-99-2)
- x) Ethyl p-toluene sulfonamide (CAS Number 80-39-7)
- y) Phenol, 4-(1,1-dimethylethyl)-, phosphate (3:1) (CAS Number 78-33-1)
- z) Ethanol, 2-chloro-, phosphate (3:1) (CAS Number 115-96-8)
- aa) Total of CAS Numbers 78-33-1, 56803-37-3, 68937-40-6, and 65652-41-7
- bb) Chlorinated paraffins (CAS Number 63449-39-8)
- cc) Alkanes, C14-17, Chloro (CAS Number 85535-85-9)
- dd) Total chlorinated paraffins (CAS Numbers 63449-39-8 and 85535-85-9)
- ee) Isopropylated Triphenyl Phosphate Mix (CAS Number 68937-41-7)

9. The permittee shall keep a record, in a manner satisfactory to the AQD District Supervisor, of all the following.¹
(R 336.1225)

Material	Record to be kept
a) Hexylene glycol (CAS Number 107-41-5)	Amount charged per hour, in pounds
b) Colophony (CAS Number 8050-09-7)	Amount charged per hour, in pounds
c) Copper content of all compounds containing copper	Amount charged per 8-hour shift, in pounds
d) Barium sulfate (CAS Number 7727-43-7)	Amount charged per 8-hour shift, in pounds
e) Hexamethylene diisocyanate (CAS Number 822-06-0)	Amount charged per 8-hour shift, in pounds
f) Mica (CAS Number 12001-26-2)	Amount charged per 8-hour shift, in pounds
g) Dimethylaniline (CAS Number 121-69-7)	Amount, in pounds, charged in each calendar month and in the 12-month rolling time period ending that month
h) Naphthalene (CAS Number 91-20-3)	Amount, in pounds, charged in each calendar month and in the 12-month rolling time period ending that month
i) Styrene (CAS Number 100-42-5)	Amount charged per hour, in pounds
j) Styrene (CAS Number 100-42-5)	Amount, in pounds, charged in each calendar month and in the 12-month rolling time period ending that month
k) Phenol (CAS Number 108-95-2)	Amount charged per 8-hour shift, in pounds
l) Benzene (CAS Number 71-43-2)	Amount charged per hour, in pounds
m) Benzene (CAS Number 71-43-2)	Amount, in pounds, charged in each calendar month and in the 12-month rolling time period ending that month
n) Cumene (CAS Number 98-82-8)	Amount charged per hour, in pounds
o) Cumene (CAS Number 98-82-8)	Amount, in pounds, charged in each calendar month and in the 12-month rolling time period ending that month
p) Siloxanes and silicones (silica filled polydimethylsiloxane, CAS Number 67762-90-7)	Amount charged per hour, in pounds
q) Nickel (CAS Number 7440-02-0)	Amount charged per hour, in pounds
r) Arsenic (CAS Number 7440-38-2)	Amount charged per hour, in pounds
s) Cadmium (CAS Number 7440-43-9)	Amount charged per hour, in pounds
t) Chromium (CAS Number 7440-47-3)	Amount charged per hour, in pounds
u) Chlorendic acid (CAS Number 115-28-6)	Amount charged per hour, in pounds
v) Chlorite-Group Minerals (CAS Number 1318-59-8)	Amount charged per 8-hour shift, in pounds
w) Aluminum hydroxide (CAS Number 21645-51-2)	Amount charged per 8-hour shift, in pounds
x) Chromium iron oxide (CAS Number 12737-27-8)	Amount charged per 8-hour shift, in pounds
y) Benzenesulfonamide, N-ethyl-2-methyl (CAS Number 1077-56-1)	Amount charged per 8-hour shift, in pounds

z) N-Ethyltoluenesulfonamide (CAS Number 8047-99-2)	Amount charged per 8-hour shift, in pounds
aa) Ethyl p-toluene sulfonamide (CAS Number 80-39-7)	Amount charged per 8-hour shift, in pounds
bb) Total sulfonamides (CAS Numbers 1077-56-1, 8047-99-2, and 80-39-7)	Amount charged per 8-hour shift, in pounds
cc) Phenol, 4-(1,1-dimethylethyl)-, phosphate (3:1) (CAS Number 78-33-1)	Amount charged per hour, in pounds
dd) Ethanol, 2-chloro-, phosphate (3:1) (CAS Number 115-96-8)	Amount charged per hour, in pounds
ee) Total of CAS Numbers 78-33-1, 56803-37-3, 68937-40-6, and 65652-41-7	Amount charged per hour, in pounds
ff) Chlorinated paraffins (CAS Number 63449-39-8)	Amount charged per hour, in pounds
gg) Alkanes, C14-17, Chloro (CAS Number 85535-85-9)	Amount charged per hour, in pounds
hh) Total chlorinated paraffins (CAS Numbers 63449-39-8 and 85535-85-9)	Amount charged per hour, in pounds
ii) Isopropylated Triphenyl Phosphate Mix (CAS Number 68937-41-7)	Amount charged per hour, in pounds

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. SV-DC-Marine (Dust Collector)	12	42	R 336.1225, 40 CFR 52.21(c)&(d)
2. SV-RFEX (Roof Exhaust)	26	38	R 336.1225, 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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