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

December 16, 2022

PERMIT TO INSTALL 70-10C

ISSUED TO
BASF Toda America, Inc.

LOCATED AT 4750 West Dickman Road Battle Creek, Michigan 49037

> IN THE COUNTY OF Calhoun

STATE REGISTRATION NUMBER P0089

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: December 8, 2022			
DATE PERMIT TO INSTALL APPROVED:	SIGNATURE:		
December 16, 2022			
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

IRSLInitial Risk Screening LevelITSLInitial Threshold Screening LevelLAERLowest Achievable Emission RateMACTMaximum Achievable Control TechnologyMAERSMichigan 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

CO2e Carbon Dioxide Equivalent dscf Dry standard cubic foot dscm Dry standard cubic meter Personal Per

gr Grains

HAP Hazardous Air Pollutant

Hg Mercury hr Hour

 $\begin{array}{ccc} \text{HP} & \text{Horsepower} \\ \text{H}_2 \text{S} & \text{Hydrogen Sulfide} \end{array}$

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 above

psia Pounds per square inch absolute psig Pounds per square inch gauge

scf Standard cubic feet

sec Seconds SO₂ Sulfur Dioxide

TAC Toxic Air Contaminant

Temp Temperature

THC Total Hydrocarbons tpy Tons per year 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
EULINE1	Raw material handling, weighing, mixing, filtering, calcination process, processing, and pack out room used in the manufacturing of lithium-ion battery cathode material for Line 1.	December 6, 2010, TBD	FGLINES
EULINE2	Raw material handling, weighing, mixing, filtering, calcination process, processing, and pack out room used in the manufacturing of lithium-ion battery cathode material for Line 2.	September 29, 2014, TBD	FGLINES

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.

EULINE1 EMISSION UNIT CONDITIONS

DESCRIPTION

Raw material handling, weighing, mixing, filtering, calcination process, processing, and pack out room used in the manufacturing of lithium-ion battery cathode material for Line 1.

Flexible Group ID: FGLINES

POLLUTION CONTROL EQUIPMENT

Fabric filters (A1BF010, A1BF020, A1BF030, A1BF210, A1BF330, A1BF720, DC-961, DC-962), HEPA filters (F-1600-A/B, F-1601-A/B, FLT-961, FLT-962)

I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
	PM	0.003 lbs per 1,000 lbs of exhaust	Hourly	The portion of EULINE1 controlled by A1BF330	SC V.1, SC VI.1, SC VI.2	R 336.1331
2.	PM10	2.98E-3 pph	Hourly	The portion of EULINE1 controlled by A1BF330	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
3.	PM2.5	2.98E-3 pph	Hourly	The portion of EULINE1 controlled by A1BF330	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
4.	РМ	3.59E-9 lbs per 1,000 lbs of exhaust	Hourly	The portion of EULINE1 controlled by FLT-961 and associated HEPA filter	SC V.1, SC VI.1, SC VI.2	R 336.1331
5.	PM10	5.66E-8 pph	Hourly	The portion of EULINE1 controlled by FLT-961 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
6.	PM2.5	5.66E-8 pph	Hourly	The portion of EULINE1 controlled by FLT-961 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
7.	РМ	2.37E-9 lbs per 1,000 lbs of exhaust	Hourly	The portion of EULINE1 controlled by FLT-962 and associated HEPA filter	SC V.1, SC VI.1, SC VI.2	R 336.1331

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
8. PM10	5.66E-8 pph	Hourly	The portion of	SC V.1,	R 336.1225,
O. PIVITU	3.00⊑-0 ppn	Houriy	EULINE1	SC V.1,	40 CFR 52.21(c)
			controlled by		& (d)
			FLT-962 and		` ,
			associated HEPA		
			filter		
9. PM2.5	5.66E-8 pph	Hourly	The portion of	SC V.1,	R 336.1225,
		•	EULINE1		40 CFR 52.21(c)
			controlled by		& (d)
			FLT-962 and		, ,
			associated HEPA		
			filter		

11. There shall be no visible emissions from any stack in EULINE1. (R 336.1225, R 336.1301, R 336.1303, 40 CFR 52.21(c) & (d))

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. <u>DESIGN/EQUIPMENT PARAMETER(S)</u>

- 1. The permittee shall not operate EULINE1 dry material operations unless the A1BF010, A1BF020, A1BF030, A1BF210, A1BF720, DC-961, and DC-962 fabric filters with the associated HEPA filter in series are installed, maintained, and operated in a satisfactory manner. The permittee shall not operate EULINE 1 dry material operations unless the A1BF330 fabric filter is installed, maintained and operated in a satisfactory manner. Satisfactory operation includes, but is not limited to, maintaining a pressure drop range across each fabric filter according to manufacturer's specifications. For the purposes of demonstrating compliance with manufacturer's recommendations for pressure drop, the permittee shall assess compliance with established drop ranges based on a one-hour block average. (R 336.1205, R 336.1224, R 336.1225, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d) 40 CFR 60.2 and 40 CFR 60.13(h)))
- 2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor the pressure drop for each fabric filter for EULINE1 (A1BF010, A1BF020, A1BF030, A1BF0310, A1BF0310, A1BF720, DC-961, and DC-962) on a continuous basis. Monitoring of data "on a continuous basis" is defined as an instantaneous data point measured at least once every 15 minutes for at least 90 percent of the operating time during an operating calendar day. The permittee is not required to monitor operational parameter data during periods of non-operation of the device resulting in cessation of the emissions to which the monitoring applies. (R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))

V. TESTING/SAMPLING

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

1. The permittee shall, upon request by the Department, verify PM, PM10 and PM2.5 emission rates from the portion of EULINE1 controlled by DC-961, DC-962, and associated HEPA filters, and A1BF330 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 Appendix A and Part 10 of the Michigan Air Pollution Control Rules for PM and 40 CFR Part 51 Appendix M for PM10 and PM2.5. 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 336.1331, 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))

- The permittee shall record the pressure drop for each fabric filter for EULINE1 (A1BF010, A1BF020, A1BF030, A1BF210, A1BF330, A1BF720, DC-961 and DC-962) in accordance with SC IV.2 on a calendar day basis, while EULINE1 is in operation. The permittee shall keep all records on file at the facility and make them available to the Department upon request. (R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))
- 2. For any baghouse that is not using a bag leak detection system, the permittee shall monitor the fabric filter emission points to verify the filters are operating properly, by taking visible emission readings for EULINE1 a minimum of once per calendar month. Either a certified or non-certified reader shall take each visible emission reading during routine operating conditions. Such readings do not have to be conducted per the requirements of Method 9. Multiple stacks may be observed simultaneously. If any visible emissions (other than uncombined water vapor) are observed, the permittee shall immediately inspect the filters and perform any required maintenance. (R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))
- 3. The permittee shall keep, in a satisfactory manner, records of all visible emission readings for EULINE1. 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 at the facility and make them available to the Department upon request. (R 336.1301, R 336.1303, R 336.1910)

VII. REPORTING

1. Within 30 days after completion of the rerouting of emissions authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than 30 days after the issuance of the permit to install. (R 336.1201(7)(a))

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVF1600	24 37		R 336.1225,
1.371 1000	24	31	40 CFR 52.21(c) & (d)
2. SVF1601	16	37	R 336.1225,
2. 345 1001	10	31	40 CFR 52.21(c) & (d)
3. SVDC961	18	36	R 336.1225, 40 CFR 52.21(c) and (d)
4. SVDC962	16	36	R 336.1225, 40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements		
5. SVA1BF330*	4	48	R 336.1225, 40 CFR 52.21(c) & (d)		
*These stacks are vented in a goose-neck down orientation.					

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVVVV. (40 CFR Part 63 Subpart VVVVVV)

Footnotes:

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

EULINE2 EMISSION UNIT CONDITIONS

DESCRIPTION

Raw material handling, weighing, mixing, filtering, calcination process, processing, and pack out room used in the manufacturing of lithium-ion battery cathode material for Line 2.

Flexible Group ID: FGLINES

POLLUTION CONTROL EQUIPMENT

Fabric filters (A2BF010, A2BF015, A2BF020, A2BF030, A2BF330, A2BF720, DC-963, DC-964, DC-965, DC-966), HEPA filters (F-1600-A/B, F-1601-A/B, FLT-963, FLT-964, FLT-965, FLT-966)

I. EMISSION LIMIT(S)

			Time Period / Operating		Monitoring / Testing	Underlying Applicable
	Pollutant	Limit	Scenario	Equipment	Method	Requirements
1.	PM	1.676E-9 lbs per 1,000 lbs of exhaust	Hourly	The portion of EULINE2 controlled by DC-963 and associated HEPA filter	SC V.1, SC VI.1, SC VI.2	R 336.1331
2.	PM10	5.66E-8 pph	Hourly	The portion of EULINE2 controlled by DC-963 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
3.	PM2.5	5.66E-8 pph	Hourly	The portion of EULINE2 controlled by DC-963 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
4.	PM	3.065E-9 lbs per 1,000 lbs of exhaust	Hourly	The portion of EULINE2 controlled by DC-964 and associated HEPA filter	SC V.1, SC VI.1, SC VI.2	R 336.1331
5.	PM10	5.66E-8 pph	Hourly	The portion of EULINE2 controlled by DC-964 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
	PM2.5	5.66E-8 pph	Hourly	The portion of EULINE2 controlled by DC-964 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
7.	PM	1.676E-9 lbs per 1,000 lbs of exhaust	Hourly	The portion of EULINE2 controlled by DC-965 and associated HEPA filter	SC V.1, SC VI.1, SC VI.2	R 336.1331

	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
8.	PM10	5.66E-8 pph	Hourly	The portion of EULINE2 controlled by DC-965 and associated HEPA filter		R 336.1225, 40 CFR 52.21(c) & (d)
9.	PM2.5	5.66E-8 pph	Hourly	The portion of EULINE2 controlled by DC-965 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
10.	РМ	3.065E-9 lbs per 1,000 lbs of exhaust	Hourly	The portion of EULINE2 controlled by DC-966 and associated HEPA filter	SC V.1, SC VI.1, SC VI.2	R 336.1331
11.	PM10	5.66E-8 pph	Hourly	The portion of EULINE2 controlled by DC-966 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
12.	PM2.5	5.66E-8 pph	Hourly	The portion of EULINE2 controlled by DC-966 and associated HEPA filter	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)
13.	1. PM	0.003 lbs per 1,000 lbs of exhaust	Hourly	The portion of EULINE2 controlled by A2BF330	SC V.1, SC VI.1, SC VI.2,	R 336.1331
	2. PM10	2.98E-3 pph	Hourly	The portion of EULINE2 controlled by A2BF330		R 336.1225, 40 CFR 52.21(c) & (d)
15.	2. PM2.5	2.98E-3 pph	Hourly	The portion of EULINE2 controlled by A2BF330	SC V.1,	R 336.1225, 40 CFR 52.21(c) & (d)

^{16.} There shall be no visible emissions from any stack in EULINE2. (R 336.1225, R 336.1301, R 336.1303, 40 CFR 52.21(c) & (d))

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. <u>DESIGN/EQUIPMENT PARAMETER(S)</u>

1. The permittee shall not operate EULINE2 dry material operations unless the A2BF010, A2BF020, A2BF015, A2BF030, A2BF720, DC-963, DC-964, DC-965 and DC-966 fabric filters and associated HEPA filters are installed, maintained, and operated in a satisfactory manner. The permittee shall not operate EULINE2 dry material operations unless the A2BF330 fabric filter is installed, maintained and operated in a satisfactory manner. Satisfactory operation includes, but is not limited to, maintaining a pressure drop range across each fabric filter according to manufacturer's specifications. For the purposes of demonstrating compliance with manufacturer's recommendations for pressure drop, the permittee shall assess compliance with established

drop ranges based on a one-hour block average. (R 336.1205, R 336.1224, R 336.1225, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d), 40CFR60.2 and 40CFR60.13(h))

2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor the pressure drop for each fabric filter for EULINE2 (A2BF010, A2BF020, A2BF015, A2BF030, A2BF330, A2BF720, DC-963, DC-964, DC-965, and DC-966) and associated HEPA filters on a continuous basis. Monitoring of data "on a continuous basis" is defined as an instantaneous data point measured at least once every 15 minutes for at least 90 percent of the operating time during an operating calendar day. The permittee is not required to monitor operational parameter data during periods of non-operation of the device resulting in cessation of the emissions to which the monitoring applies. (R 336.1224, R 336.1225, R 336.1301, R 336.13101, 40 CFR 52.21(c) and (d))

V. TESTING/SAMPLING

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

1. The permittee shall, upon request by the Department, verify PM,PM10 and PM2.5 emission rates from the portion of EULINE2 controlled by DC-963, DC-964, DC-965, DC-966 and associated HEPA filters, A2BF330 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 Appendix A and Part 10 of the Michigan Air Pollution Control Rules for PM and 40 CFR Part 51 Appendix M for PM10 and PM2.5. 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 336.1331, 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 record the pressure drop for each fabric filter for EULINE2 (A2BF010, A2BF020, A2BF015, A2BF030, A2BF330, A2BF720, DC-963, DC-964, DC-965, DC-966) and associated HEPA filters in accordance with SC IV.2 on a calendar day basis, while EULINE2 is in operation. The permittee shall keep all records on file at the facility and make them available to the Department upon request. (R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))
- 2. For any baghouse that is not using a bag leak detection system, the permittee shall monitor the fabric filter emission points to verify the filters are operating properly, by taking visible emission readings for EULINE2 a minimum of once per calendar month. Either a certified or non-certified reader shall take each visible emission reading during routine operating conditions. Such readings do not have to be conducted per the requirements of Method 9. Multiple stacks may be observed simultaneously. If any visible emissions (other than uncombined water vapor) are observed, the permittee shall immediately inspect the filters and perform any required maintenance. (R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))
- 3. The permittee shall keep, in a satisfactory manner, records of all visible emission readings for EULINE2. 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 at the facility and make them available to the Department upon request. (R 336.1301, R 336.1303, R 336.1910)

VII. REPORTING

1. Within 30 days after completion of the rerouting of emissions authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or

modification is considered to occur not later than 30 days after the issuance of the permit to install. . (R 336.1201(7)(a))

VIII. STACK/VENT RESTRICTION(S)

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

Stack ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVF1600	24	37	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVF1601	16	37	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVDC963	22	37	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVDC964	16	36	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVDC965	22	37	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVDC966	16	36	R 336.1225, 40 CFR 52.21(c) & (d)
7. 5. SVA2BF330*	6	42	R 336.1225, 40 CFR 52.21(c) & (d)
*These stacks are vente	d in a goose-neck down ori	entation.	

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVVVV. (40 CFR Part 63 Subpart VVVVVV)

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
FGLINES	All processing lines and associated equipment at the	EULINE1
	facility.	EULINE2

FGLINES FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All processing lines and associated equipment at the facility.

Emission Unit: EULINE1, EULINE2

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Dalladard.	Line	Time Period /		Monitoring / Testing	Underlying Applicable
Pollutant	Limit	Operating Scenario	Equipment	Method	Requirements
2. PM	9.987 E-8	Hourly	The portion of	SC. V.1	R 336.1331
	lbs/1000lbs of		FGLINES		
	exhaust		controlled by HEPA		
			filter F-1600-A/B		
			and vented through		
3. PM10	4 00F C nnh	l la mb	West Stack	SC V.1	D 220 420E
3. PIVITU	4.28E-6 pph	Hourly	The portion of FGLINES	SC V.1	R 336.1225,
					40 CFR 52.21(
			controlled by HEPA filter F-1600-A/B		c) & (d)
			and vented through West Stack		
4. PM2.5	4.28E-6 pph	Hourly	The portion of	SC V.1	R 336.1225,
4. FIVIZ.3	4.20E-0 ppn	riburiy	FGLINES	3C V.1	40 CFR 52.21(
			controlled by HEPA		c) & (d)
			filter F-1600-A/B		c) & (u)
			and vented through		
			West Stack		
5. PM	4.745E-8	Hourly	The portion of	SC. V.2	R 336.1331
	lbs/1000 lbs of	,	FGLINES		
	exhaust		controlled by HEPA		
			filter F-1601-A/B		
			and vented through		
			East Stack		
6. PM10	9.57E-7 pph	Hourly	The portion of	SC V.2	R 336.1225,
			FGLINES		40 CFR 52.21(
			controlled by HEPA		c) & (d)
			filter F-1601-A/B		
			and vented through		
			East Stack		
7. PM2.5	9.57E-7 pph	Hourly	The portion of	SC V.2	R 336.1225,
			FGLINES		40 CFR 52.21(
			controlled by HEPA		c) & (d)
			filter F-1601-A/B		
			and vented through		
			East Stack		

II. MATERIAL LIMIT(S)

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NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

- For new sources using a baghouse as a control device, the permittee must install, operate, and maintain a
 bag leak detection system on all baghouses used to comply with the HAP metal emissions limit in Table 4 of
 40 CFR Part 63 Subpart VVVVV. Bag leak detection systems must comply with requirements outlined in
 40 CFR 63.11410(g)(1), including, but not limited to the following: (40 CFR 63.11496(f)(4))
 - a) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 0.00044 grains per actual cubic foot or less. (40 CFR 63.11410(g)(1)(i))
 - b) The bag leak detection system sensor must provide output of relative PM loadings. The permittee shall continuously record the output from the bag leak detection system using electronic or other means (e.g., using a strip chart recorder or a data logger). (40 CFR 63.11410(g)(1)(ii))
 - c) The bag leak detection system must be equipped with an alarm system that will sound when the system detects an increase in relative particulate loading over the alarm set point established according to 40 CFR 63.11410(g)(1)(iv), and the alarm must be located such that it can be heard by the appropriate plant personnel. (40 CFR 63.11410(g)(1)(iii))
 - d) In the initial adjustment of the bag leak detection system, the permittee must establish, at a minimum, the baseline output by adjusting the sensitivity (range) and the averaging period of the device, the alarm set points, and the alarm delay time. (40 CFR 63.11410(g)(1)(iv))
 - e) Following initial adjustment, the permittee shall not adjust the averaging period, alarm set point, or alarm delay time without approval from the Administrator or delegated authority except as provided in 40 CFR 63.11410(g)(1)(vi). (40 CFR 63.11410(g)(1)(v))
 - f) Once per quarter, the permittee may adjust the sensitivity of the bag leak detection system to account for seasonal effects, including temperature and humidity, according to the procedures identified in the site-specific monitoring plan required by 40 CFR 63.11410(g)(2). (40 CFR 63.11410(g)(1)(vi))
 - g) The permittee must install the bag leak detection sensor downstream of the baghouse and upstream of any wet scrubber. (40 CFR 63.11410(g)(1)(vii))
 - h) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors. (40 CFR 63.11410(g)(1)(viii))

V. TESTING/SAMPLING

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

- 1. The permittee shall, upon request by the Department, verify PM, PM10 and PM2.5 emission rates from West Stack 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 Appendix A and Part 10 of the Michigan Air Pollution Control Rules for PM and 40 CFR Part 51 Appendix M for PM10 and PM2.5. 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 336.1331, R 336.2001, R 336.2003, R 336.2004)
- 2. The permittee shall, upon request by the Department, verify PM, PM10 and PM2.5 emission rates from East Stack 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 Appendix A and Part 10 of the Michigan Air Pollution Control Rules for PM and 40 CFR Part 51 Appendix M for PM10 and PM2.5. 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

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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 336.1331, 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))

NA

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVVVV. (40 CFR Part 63 Subpart VVVVVV)

Footnotes:

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