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

December 20, 2021

PERMIT TO INSTALL 334-98B

ISSUED TO
SlipNOT Metal Safety Flooring

LOCATED AT 2545 Beaufait Street Detroit, Michigan 48207

IN THE COUNTY OF Wayne

STATE REGISTRATION NUMBER M4130

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 13, 2021				
SIGNATURE:				
SIGNATURE:				
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 pegrees Fahrenheit

gr Grains

HAP Hazardous Air Pollutant

Hg Mercury hr Hour

HP Horsepower 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 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.

		Installation	
	Emission Unit Description	Date /	
	(Including Process Equipment & Control	Modification	
Emission Unit ID	Device(s))	Date	Flexible Group ID
EUBOOTH1	Thermal spray booth where stainless steel	2003	FGBOOTHS
	panels are manually loaded into the booth. A		
	stainless steel wire is fed though a plasma		
	stream generated by an automated head which		
	deposits the molten metal onto the surface of		
	the panels following a programmed pattern.		
	Emissions are controlled by dust collector SS-12 then exhausted outside the facility.		
EUBOOTH2	Thermal spray booth where stainless steel	2003	FGBOOTHS
200001112	panels are manually loaded into the booth. A	2003	1 90001113
	stainless steel wire is fed though a plasma		
	stream generated by an automated head which		
	deposits the molten metal onto the surface of		
	the panels following a programmed pattern.		
	Emissions are controlled by dust collector		
	SS-12 then exhausted outside the facility.		
EUBOOTH3	Thermal spray booth where steel panels are	2003	FGBOOTHS
	manually loaded into the booth. A steel wire is		
	fed though a plasma stream generated by an		
	automated head which deposits the molten		
	metal onto the surface of the panels following		
	a programmed pattern. Emissions are controlled by dust collector STL-34 then		
	exhausted outside the facility.		
EUBOOTH4	Thermal spray booth where steel panels are	2003	FGBOOTHS
202001114	manually loaded into the booth. A steel wire is	2000	1 00001110
	fed though a plasma stream generated by an		
	automated head which deposits the molten		
	metal onto the surface of the panels following		
	a programmed pattern. Emissions are		
	controlled by dust collector STL-34 or STL-45,		
	then exhausted outside the facility.		
EUBOOTH5	Thermal spray booth where steel panels are	2003	FGBOOTHS
	manually loaded into the booth. A steel wire is		
	fed though a plasma stream generated by an		
	automated head which deposits the molten		
	metal onto the surface of the panels following a programmed pattern. Emissions are		
	controlled by dust collector STL-45 then		
	exhausted outside the facility.		
	exhausted dutside the facility.		

	Emission Unit Description	Installation Date /	
Emission Unit ID	(Including Process Equipment & Control Device(s))	Modification Date	Flexible Group ID
EUBOOTH6	Thermal spray booth where steel panels are manually loaded into the booth. A steel wire is fed though a plasma stream generated by an automated head which deposits the molten metal onto the surface of the panels following a programmed pattern. Emissions are controlled by dust collector STL-67 then exhausted outside the facility.	2003	FGBOOTHS
EUBOOTH7	Thermal spray booth where steel panels are manually loaded into the booth. A steel wire is fed though a plasma stream generated by an automated head which deposits the molten metal onto the surface of the panels following a programmed pattern. Emissions are controlled by dust collector STL-67 then exhausted outside the facility.	2003	FGBOOTHS
EUBOOTH8	Thermal spray booth where aluminum panels are manually loaded into the booth. An aluminum wire is fed though a plasma stream generated by an automated head which deposits the molten metal onto the surface of the panels following a programmed pattern. Emissions are controlled by dust collector AT-89 then exhausted outside the facility.	2003	FGBOOTHS
EUBOOTH9	Thermal spray booth where aluminum panels are manually loaded into the booth. An aluminum wire is fed though a plasma stream generated by an automated head which deposits the molten metal onto the surface of the panels following a programmed pattern. Emissions are controlled by dust collector AT-89 then exhausted outside the facility.	2003	FGBOOTHS
EUCOATINGS	Surface coating of metal parts using spray and manual application.	2003	FG621
EUWHEELABRATOR	Surface blasting unit that uses abrasive grit to prepare stainless steel, steel, and aluminum panels. Emissions are controlled by the Farr dust collector then exhausted outside the facility.	2003	FGFARR
EUPANGBOURNE	Surface blasting unit that uses abrasive grit to prepare stainless steel, steel, and aluminum panels. Emissions are controlled by the Farr dust collector then exhausted outside the facility.	2003	FGFARR

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.

EUCOATINGS EMISSION UNIT CONDITIONS

DESCRIPTION

Surface coating of metal parts using spray and manual application.

Flexible Group: FG621

POLLUTION CONTROL EQUIPMENT

NA

I. <u>EMISSION LIMIT(S)</u>

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	2,000 lb/month	Calendar month	EUCOATINGS	SC VI.3	R 336.1702(d)
2. VOC	2,800 lb/year	12-month rolling time	EUCOATINGS	SC VI.3	R 336.1225,
		period as determined at			R 336.1702(a)
		the end of each			
		calendar month			

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall capture all waste coatings and solvents; and shall store them in closed containers. The permittee shall dispose of all waste coating and solvents in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1225, R 336.1702(a)).
- 2. The permittee shall handle all VOC containing materials, including coatings, reducers, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. (R 336.1225, R 336.1702(a))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EUCOATINGS with manual and atomizing spray applicators, or comparable technology with equivalent transfer efficiency. (R 336.1702(a))

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. (R 336.1225, R 336.1702)

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 336.1225, R 336.1702)
- The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and solvent, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)
- 3. The permittee shall keep the following information for on a monthly basis for EUCOATINGS:
 - a) Gallons (with water) of each material used.
 - b) Where applicable, gallons (with water) of material reclaimed.
 - c) VOC content (with water) in pounds per gallon, of each material as applied.
 - d) VOC mass emission calculations determining the monthly emission rate in pounds per calendar month.
 - e) VOC mass emission calculations determining the annual emission rate in pounds per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(d))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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
FGBOOTHS	Nine thermal spray booths with emissions controlled by	EUBOOTH1
	different dust collectors.	EUBOOTH2
		EUBOOTH3
		EUBOOTH4
		EUBOOTH5
		EUBOOTH6
		EUBOOTH7
		EUBOOTH8
		EUBOOTH9
FGFARR	Dust collector controlling emissions from two surface	EUWHEELABRATOR
	blasting units that use abrasive grit to prepare stainless	EUPANGBORNE
	steel, steel, and aluminum panels.	
FG621	All metal parts coating lines source-wide, including	EUCOATINGS
	metal parts coating lines covered by other permits,	
	which are exempted by R 336.1621(10)(b).	

FGBOOTHS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Nine thermal spray booths with emissions controlled by different dust collectors.

Emission Units: EUBOOTH1, EUBOOTH2, EUBOOTH4, EUBOOTH4, EUBOOTH5, EUBOOTH6, EUBOOTH7, EUBOOTH8, EUBOOTH9.

POLLUTION CONTROL EQUIPMENT

Dust collectors SS-12, STL-34, STL-45, STL-67 and AL-89.

I. <u>EMISSION LIMIT(S)</u>

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
Hexavalent	1.50 lbs/year ¹ *	12-month rolling time	EUBOOTH1 and	SC VI.2	R 336.1225(2)
chromium	1.00 100/ y car	period as determined	EUBOOTH2,	SC VI.3	1 (000.1220(2)
(CAS# 18540-29-9)		at the end of each calendar month	combined	00 10	
Hexavalent	2.42 lbs/year1**	12-month rolling time	EUBOOTH1 and	SC VI.2	R 336.1225(2)
chromium		period as determined	EUBOOTH2,	SC VI.3	
(CAS# 18540-29-9)		at the end of each calendar month	combined		
3. Visible Emissions	0% opacity	6-minute average	Each dust collector controlling FGBOOTHS	SC III.1	R 336.1301(1)(c)
4. PM	1.00*10 ⁻³ pound per 1,000 pounds of exhaust gases, calculated on a dry gas basis	Hourly	Dust collector SS-12 controlling EUBOOTH1 and EUBOOTH2 emitted from stack SV-SS-12	SC V.1 SC VI.4	R 336.1331(1)(c)
5. PM10/PM2.5	0.045 lbs/hr	Hourly	Dust collector SS-12 controlling EUBOOTH1 and EUBOOTH2 emitted from stack SV-SS-12	SC VI.4	40 CFR 52.21(c)&(d)
6. PM	1.33*10 ⁻³ pound per 1,000 pounds of exhaust gases, calculated on a dry gas basis	Hourly	Dust collector STL-34 controlling EUBOOTH3 and EUBOOTH4 emitted from stack SV-STL-34	SC V.1 SC VI.4	R 336.1331(1)(c)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
7. PM10/PM2.5	0.060 lbs/hr	Hourly	Dust collector STL-34 controlling EUBOOTH3 and EUBOOTH4 emitted from stack SV-STL-34	SC V.1 SC VI.4	40 CFR 52.21(c)&(d)
8. PM	1.33*10 ⁻³ pound per 1,000 pounds of exhaust gases, calculated on a dry gas basis	Hourly	Dust collector STL-45 controlling EUBOOTH4 and EUBOOTH5 emitted from stack SV-STL-45	SC V.1 SC VI.4	R 336.1331(1)(c)
9. PM10/PM2.5	0.060 lbs/hr	Hourly	Dust collector STL-45 controlling EUBOOTH4 and EUBOOTH5 emitted from stack SV-STL-45	SC VI.4	40 CFR 52.21(c)&(d)
10. PM	1.33*10 ⁻³ pound per 1,000 pounds of exhaust gases, calculated on a dry gas basis	Hourly	Dust collector STL-67 controlling EUBOOTH6 and EUBOOTH7 emitted from stack SV-STL-67	SC V.1 SC VI.4	R 336.1331(1)(c)
11. PM10/PM2.5	0.060 lbs/hr	Hourly	Dust collector STL-67 controlling EUBOOTH6 and EUBOOTH7 emitted from stack SV-STL-45	SC V.1 SC VI.4	40 CFR 52.21(c)&(d)
12. PM	1.37*10 ⁻³ pound per 1,000 pounds of exhaust gases, calculated on a dry gas basis	Hourly	Dust collector AL-89 controlling EUBOOTH8 and EUBOOTH9 emitted from stack SV-AL-89	SC V.1 SC VI.4	R 336.1331(1)(c)
13. PM10/PM2.5	0.102 lbs/hr	Hourly	Dust collector AL-89 controlling EUBOOTH8 and EUBOOTH9 emitted from stack SV-AL-89	SC V.1 SC VI.4	40 CFR 52.21(c)&(d)
		is at a height of 31 fe date SV-SS-12 is at a			

II. MATERIAL LIMIT(S)

		Time Period /		Monitoring /	Underlying Applicable
Material	Limit	Operating Scenario	Equipment	Testing Method	Requirements
1. Stainless steel	35,000	12-month rolling time	EUBOOTH1 and	SC VI.4	R 336.1224
wire	lbs/year1*	period as determined at	EUBOOTH2,		R 336.1225(2)
		the end of each calendar	combined		
		month			
2. Stainless steel	56,635	12-month rolling time	EUBOOTH1 and	SC VI.4	R 336.1224
wire	lbs/year1	period as determined at	EUBOOTH2,		R 336.1225(2)
		the end of each calendar	combined		
		month			
SC II.1 is applicable while SV-SS-12 is at a height of 31 feet					

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate any booth in FGBOOTHS unless the dust collector controlling that booth is installed, maintained, and operated in a satisfactory manner. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))
- 2. The permittee shall not use stainless steel wire in any booths other than EUBOOTH1 and EUBOOTH2.1 (R 336.1224, R 336.1225)
- 3. The permittee shall not operate FGBOOTHS unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the dust collectors controlling FGBOOTHS, has been submitted within 60 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 336.1702(a), R 336.1910, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) and (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a pressure drop monitoring device on each dust collector in FGBOOTHS. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))
- 2. The permittee shall maintain minimum overall particulate matter control efficiency of 99.0 percent across each dust collector in FGBOOTHS. (R 336.1224, 336.1301, R336.1331, 40 CFR 52.21, R336.1910)

^{*} SC II.2 is applicable on and after the date SV-SS-12 is at a height of 46 feet.

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3. The permittee shall maintain dust collector SS-12 with filters meeting, at a minimum, Minimum Efficiency Reporting Value (MERV) 15. (R 336.1224, 336.1301, R336.1331, 40 CFR 52.21, R336.1910)

V. TESTING/SAMPLING

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

1. Upon request of the AQD District Supervisor, the permittee shall verify the PM emission rate from any dust collector in FGBOOTHS by testing at the owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10/PM2.5	40 CFR Part 51, Appendix M

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 336.2001, R 336.2003, R 336.2004, 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 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.¹ (R 336.1224, R 336.1225)
- 2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material used in FGBOOTHS, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.¹ (R 336.1224, R 336.1225)
- 3. The permittee shall keep the following information on a monthly basis for EUBOOTH1 and EUBOOTH2, combined:
 - a) The amount (in pounds) of stainless steel wire used.
 - b) The chromium content (in percent by weight) of the stainless steel wire used.
 - c) The emission factor used for Hexavalent chromium (CAS# 18540-29-9):
 - i. The California Air Resources Board Thermal Spraying Emission Factors (Title 17, CCR, section 93102.5 to section 93101.5 2009) may be used.
 - ii. Alternate emission factors may be used upon prior approval of the AQD District Supervisor.
 - d) Hexavalent chromium mass emission calculations determining the monthly emission rate in pounds per calendar month.
 - e) Hexavalent chromium mass emission calculations determining the annual emission rate in pounds per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1224, R 336.1225)

4. The permittee shall record the pressure drop of each dust collector once per week in an acceptable manner. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))

VII. REPORTING

1. Within seven days of completing construction on SV-SS-12 and increasing the stack height to a minimum of 46 feet; the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. (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	Maximum Exhaust Diameter / Dimensions ID (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-SS-12	18	31*	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV-SS-12	18	46**	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV-STL-34	10	28	R 336.1225, 40 CFR 52.21(c) & (d)
4. SV-STL-45	22	22	R 336.1225, 40 CFR 52.21(c) & (d)
5. SV-STL-67	22	22	R 336.1225, 40 CFR 52.21(c) & (d)
6. SV-AT-89	20	25	R 336.1225, 40 CFR 52.21(c) & (d)

^{*} SC VIII.1 is applicable until the height of SV-SS-12 is raised to a minimum height of 46 feet above ground.
** SC VIII.2 is applicable on and after the date the height of SV-SS-12 is raised to a minimum height of 46 feet.

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subpart A & WWWWWW. The permittee shall keep the required records on file at the facility and make them available to the Department upon request. (40 CFR Part 63 Subparts A & WWWWWW)

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

FGFARR FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Dust collector controlling emissions from two surface blasting units that use abrasive grit to prepare stainless steel, steel, and aluminum panels.

Emission Unit: EUWHEELABRATOR, EUPANGBORNE

POLLUTION CONTROL EQUIPMENT

Farr model GS-36 cartridge-type dust collector.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a pressure drop monitoring device on FGFARR. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))
- 2. The permittee shall not operate FGFARR unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the cartridge-type dust collector controlling FGFARR, has been submitted within 60 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 guick 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 336.1702(a), R 336.1910, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) and (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any surface blasting units in FGFARR unless the cartridge-type dust collector is installed, maintained, and operated in a satisfactory manner. (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))

NA

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 dust collector pressure drop once per week in an acceptable manner. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (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. SV-FARR	32	22	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

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

FG621 FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All metal parts coating lines source-wide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b).

Emission Units: EUCOATINGS

POLLUTION CONTROL EQUIPMENT

Exhaust filters to control particulate matter

I. <u>EMISSION LIMIT(S)</u>

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	Less than 30.0 tpy	12-month rolling time period as determined at the end of each calendar month	All metal parts coating lines sourcewide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b).	SC VI.2, SC VI.3	R 336.1702(d)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content, and density of any coating used to coat plastic parts, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. (R 336.1702(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 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 336.1702(d))
- 2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and reducer including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1702(d))
- 3. The permittee shall keep the following information on a monthly basis for all metal parts coating lines source-wide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b):
 - a) Gallons or pounds of each VOC containing material used.
 - VOC content, in pounds per gallon or pounds per pound as applied, of each VOC containing material used.
 - c) VOC emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1702(d))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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