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

February 7, 2023

PERMIT TO INSTALL 22-23

ISSUED TO Lacks Enterprises, Inc.

LOCATED AT

4245 52nd Street Kentwood, Michigan 49512

> IN THE COUNTY OF Kent

STATE REGISTRATION NUMBER N2079

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, 2022

DATE PERMIT TO INSTALL APPROVED: February 7, 2023	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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COMMON ACRONYMS

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm BTU $^{\circ}$ C CO CO ₂ e dscf dscm $^{\circ}$ F gr HAP Hg hr HP H ₂ S kW lb m mg mm MM MW NMOC NO _x ng PM PM10 PM2.5 pph ppm ppmv ppmv ppmv psia psig scf	Actual cubic feet per minute British Thermal Unit Degrees Celsius Carbon Monoxide Carbon Dioxide Equivalent Dry standard cubic foot Dry standard cubic meter Degrees Fahrenheit Grains Hazardous Air Pollutant Mercury Hour Horsepower Hydrogen Sulfide Kilowatt Pound Meter Milligram Millimeter Milligram Millimeter Million Megawatts Non-Methane Organic Compounds Oxides of Nitrogen Nanogram Particulate Matter Particulate Matter Particulate Matter equal to or less than 10 microns in diameter Particulate Matter equal to or less than 2.5 microns in diameter Parts per million Parts per million Parts per million by volume Parts per million by weight Pounds per square inch absolute Pounds per square inch gauge Standard cubic feet
ppmw	Parts per million by weight
•	Pounds per square inch gauge
scf sec	Standard cubic feet Seconds
SO ₂	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year Microgram
μg μm	Micrometer or Micron
VOC	Volatile Organic Compounds
vee yr	Year
J.	

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
EUWESTCFPAINT	A carbon fiber and plastic parts coating line consisting of a clean room, a paint spray booth, and a steam-heated drying oven. Coatings are applied using HVLP applicators.	TBD	NA
EUWESTBOILER	One 1.5 MMBtu/hr natural gas-fired boiler.	TBD	NA
EUROBOSANDING	Robot sanding booth. Emissions are controlled by two fabric filters.	TBD	FGWESTSANDINGOP
EUMANUALSANDING	Manual sanding booth. Emissions are controlled by a fabric filter.	TBD	FGWESTSANDINGOP
EUPRETREATCELL	Pretreatment booth where blasting, using dry ice, is performed.	TBD	NA

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

EUWESTCFPAINT EMISSION UNIT CONDITIONS

DESCRIPTION

A carbon fiber and plastic parts coating line consisting of a clean room, a paint spray booth, and a steam-heated drying oven. Coatings are applied using HVLP applicators.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Fabric Filter (Paint Spray Booth)

I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1.		13.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUWESTCFPAINT	SC VI.4	R 336.1702(a)
2.	t-Butyl Acetate	11.8 tpy ¹	12-month rolling time period as determined at the end of each calendar month	EUWESTCFPAINT	SC VI.4	R 336.1224, R 336.1225
3.	VOC, t-Butyl Acetate, and Acetone (Combined)	32.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUWESTCFPAINT	SC VI.4	R 336.1224, R 336.1702(a)
4.	VOC (Exterior Basecoat and Interior Coatings)	5.0 lb/gal (minus water) ^a as applied	Daily volume- weighted average	EUWESTCFPAINT	SC V.1, SC VI.4	R 336.1702(d)
5.	VOC (Exterior Clearcoat)	4.5 lb/gal (minus water) ^a as applied	Daily volume- weighted average	EUWESTCFPAINT	SC V.1, SC VI.4	R 336.1702(d)
6.	VOC (Exterior Primer)	4.8 lb/gal (minus water) ^a as applied	Daily volume- weighted average	EUWESTCFPAINT	SC V.1, SC VI.4	R 336.1702(d)

		Time Period / Operating		Monitoring / Testing	Underlying Applicable
Pollutant	Limit	Scenario	Equipment	Method	Requirements
^a The phrase "minus water" shall also include compounds which are used as organic solvents and which are					
excluded from the definition of volatile organic compound. (R 336.1602(4))					

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall capture all waste materials and shall store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1224, R 336.1225, R 336.1702(a))
- 2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. (R 336.1224, R 336.1370(1))
- 3. The permittee shall handle all VOC and/or HAP containing materials, including coatings, reducers, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. (R 336.1224, R 336.1225, R 336.1702(a))
- 4. The permittee shall not operate the bake oven portion of EUWESTCFPAINT at a temperature in excess of 194°F. (R 336.1702(d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate EUWESTCFPAINT unless all respective exhaust filters are installed, maintained and operated in a satisfactory manner. (R 336.1224, R 336.1301, R 336.1910)
- 2. The permittee shall equip and maintain EUWESTCFPAINT with HVLP or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. (R 336.1702(a))
- 3. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor and record the bake oven temperature on a continuous basis. (R 336.1702(d))

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 material, 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 last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1224, R 336.1225, R 336.1702)
- 2. The permittee shall monitor and record the bake oven temperature on a continuous basis. (R 336.1702(d))

- The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of 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 336.1224, R 336.1225, R 336.1702)
- 4. The permittee shall keep the following information on a monthly basis for EUWESTCFPAINT:
 - a) Gallons (with water) of each coating used.
 - b) Gallons (or pounds) of each clean-up/purge solvent used.
 - c) VOC content (minus water and with water) of each coating as applied.
 - d) t-Butyl acetate content of each coating or clean-up/purge used.
 - e) Acetone content of each coating or clean-up/purge used.
 - f) VOC emission calculations determining the volume-weighted average VOC content of the materials as applied on a daily basis.
 - g) t-Butyl acetate mass emission calculations determining the monthly emission rate in tons per calendar month.
 - h) t-Butyl acetate mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.
 - i) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - j) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.
 - k) VOC, t-butyl acetate, and acetone (combined) mass emission calculations determining the monthly emission rate in tons per calendar month.
 - I) VOC, t-butyl acetate, and acetone (combined) mass 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 336.1224, R 336.1225, R 336.1702(a) and (d))

5. The permittee shall keep, in a satisfactory manner, continuous records of the bake oven temperature for EUWESTCFPAINT, as required by SC VI.2. (R 336.1702(d))

VII. <u>REPORTING</u>

 Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification 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 commencement of trial operation of EUWESTCFPAINT. (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. SV-WESTCFPAINT	18	45	R 336.1225, 40 CFR 52.21 (c) and (d)

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 A and Subpart PPPP, as they apply to EUWESTCFPAINT. (40 CFR Part 63, Subparts A and PPPP)

Footnotes:

EUWESTBOILER EMISSION UNIT CONDITIONS

DESCRIPTION

One 1.5 MMBtu/hr natural gas-fired boiler.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall burn only natural gas in EUWESTBOILER. (R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21 (c) and (d))

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The heat input capacity of EUWESTBOILER shall not exceed a maximum of 1.5 MMBTU per hour. (40 CFR 52.21(c) and (d), 40 CFR Part 63 Subpart DDDDD)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

NA

VII. <u>REPORTING</u>

 Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification 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 commencement of trial operation of EUWESTBOILER. (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
SV-WESTBOILER ^a	60	30	R 336.1225,
			40 CFR 52.21 (c) and (d)
his stack is not required to	be discharged unobstructed	d vertically upwards.	
	SV-WESTBOILER ^a	Diameter / Dimensions Stack & Vent ID (inches) SV-WESTBOILER ^a 60	Diameter / Minimum Height Dimensions Above Ground Stack & Vent ID (inches) (feet)

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 A and Subpart DDDDD, as they apply to EUWESTBOILER. (40 CFR Part 63, Subparts A and DDDDD)

Footnotes:

EUPRETREATCELL EMISSION UNIT CONDITIONS

DESCRIPTION

Pretreatment booth where blasting, using dry ice, is performed.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

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))

NA

VI. MONITORING/RECORDKEEPING

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

NA

VII. <u>REPORTING</u>

 Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification 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 commencement of trial operation of EUPRETREATCELL. (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. SV-PRETREAT ^a	14	35	R 336.1225,		
			40 CFR 52.21 (c) and (d)		
^a This stack is not required to be discharged unobstructed vertically upwards.					

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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
FGWESTSANDINGOP	Sanding operation consisting of two booths. Emissions from each emission unit are controlled by fabric filters.	EUROBOSANDING, EUMANUALSANDING

FGWESTSANDINGOP FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Sanding operation consisting of two booths. Emissions from each emission unit are controlled by fabric filters.

Emission Unit: EUROBOSANDING, EUMANUALSANDING

POLLUTION CONTROL EQUIPMENT

Fabric filter (Each emission unit)

I. EMISSION LIMIT(S)

F	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. F	PM	0.01 lbs/per 1000 lbs of exhaust gas ^a	Hourly	Each EU in FGWESTSANDINGOP	SC V.1	R 336.1331
^a Ca	^a Calculated on a dry gas basis.					

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate equipment in FGWESTSANDINGOP unless each fabric filter is installed, maintained, and operated in a satisfactory manner acceptable to the AQD District Supervisor, which includes operation of the fabric filter according to the manufacturer's specifications or alternate documentation acceptable to the AQD District Supervisor. (R 336.1331, 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))

NA

NA

VII. <u>REPORTING</u>

 Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification 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 commencement of trial operation of each emission unit in FGWESTSANDINGOP. (R 336.1201(7)(a))

VIII. STACK/VENT RESTRICTION(S)

1. The exhaust gases from FGWESTSANDINGOP shall be released only into the general in-plant environment. (40 CFR 52.21(c) and (d))

IX. OTHER REQUIREMENT(S)

NA

Footnotes: