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

October 31, 2022

PERMIT TO INSTALL 142-22

ISSUED TO Kirchhoff Automotive

LOCATED AT 1200 East Chicago Boulevard Tecumseh, Michigan 48286

IN THE COUNTY OF

Lenawee

## STATE REGISTRATION NUMBER N1662

AT RIS PENINSULAM

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:

# October 14, 2022

| DATE PERMIT TO INSTALL APPROVED:<br>October 31, 2022 | SIGNATURE: |
|--|------------|
| DATE PERMIT VOIDED:                                  | SIGNATURE: |
| DATE PERMIT REVOKED:                                 | SIGNATURE: |

# PERMIT TO INSTALL

## **Table of Contents**

| COMMON ACRONYMS                       | 2 |
|---------------------------------------|---|
| POLLUTANT / MEASUREMENT ABBREVIATIONS | 3 |
| GENERAL CONDITIONS                    | 4 |
| EMISSION UNIT SPECIAL CONDITIONS      | 6 |
| EMISSION UNIT SUMMARY TABLE           | 6 |
| FLEXIBLE GROUP SPECIAL CONDITIONS     | 7 |
| FLEXIBLE GROUP SUMMARY TABLE          | 7 |
| FG-WELDING                            | 8 |
|                                       |   |

## **COMMON ACRONYMS**

| AQD<br>BACT<br>CAA<br>CAM<br>CEMS<br>CFR<br>COMS<br>Department/department/EGLE<br>EU<br>FG<br>GACS<br>GC<br>GHGS<br>HVLP<br>ID<br>IRSL<br>ITSL<br>LAER<br>MACT<br>MAERS<br>MAP<br>MSDS<br>NA<br>NAAQS<br>NESHAP<br>NSPS<br>NSR<br>PS<br>SSD<br>PTE<br>PTI<br>RACT<br>ROP<br>SC<br>SCR<br>SCR<br>SCR<br>SNCR<br>SRN<br>TBD<br>TEQ<br>USEPA/EPA | Air Quality Division<br>Best Available Control Technology<br>Clean Air Act<br>Compliance Assurance Monitoring System<br>Code of Federal Regulations<br>Continuous Opacity Monitoring System<br>Michigan Department of Environment, Great Lakes, and Energy<br>Emission Unit<br>Flexible Group<br>Gallons of Applied Coating Solids<br>General Condition<br>Greenhouse Gases<br>High Volume Low Pressure*<br>Identification<br>Initial Risk Screening Level<br>Lowest Achievable Emission Rate<br>Maximum Achievable Control Technology<br>Michigan Air Emissions Reporting System<br>Malfunction Abatement Plan<br>Material Safety Data Sheet<br>Not Applicable<br>National Ambient Air Quality Standards<br>National Emission Standard for Hazardous Air Pollutants<br>New Source Performance Standards<br>New Source Review<br>Performance Specification<br>Prevention of Significant Deterioration<br>Perment Total Enclosure<br>Permit to Install<br>Reasonable Available Control Technology<br>Renewable Operating Permit<br>Special Condition<br>Selective Catalytic Reduction<br>State Registration Number<br>To Be Determined<br>Toxicity Equivalence Quotient<br>United States Environmental Protection Agency |
|---|---|
| VE  | Visible Emissions   |

## **POLLUTANT / MEASUREMENT ABBREVIATIONS**

| MWMegawattsNMOCNon-Methane Organic CompoundsNOxOxides of NitrogenngNanogramPMParticulate MatterPM10Particulate Matter equal to or less than 10 microns in diameterPM2.5Particulate Matter equal to or less than 2.5 microns in diameterpphPounds per hourppmParts per millionppmvParts per million by volumeppmvParts per million by volumepsiaPounds per square inch absolutepsigStandard cubic feetsecSecondsSO2Sulfur DioxideTACToxic Air ContaminantTemppTemperatureTHCTotal HydrocarbonstpyMicrogramµgMicrogramµmMicrogramµmMicrogramµrYear              | acfm<br>BTU<br>°C<br>CO<br>CO <sub>2</sub> e<br>dscf<br>dscm<br>°F<br>gr<br>HAP<br>Hg<br>hr<br>HP<br>H2S<br>kW<br>Ib<br>m<br>mg<br>mm | Actual cubic feet per minute<br>British Thermal Unit<br>Degrees Celsius<br>Carbon Monoxide<br>Carbon Dioxide Equivalent<br>Dry standard cubic foot<br>Dry standard cubic meter<br>Degrees Fahrenheit<br>Grains<br>Hazardous Air Pollutant<br>Mercury<br>Hour<br>Horsepower<br>Hydrogen Sulfide<br>Kilowatt<br>Pound<br>Meter<br>Milligram<br>Millimeter<br>Million |
|---|---|--|
| NOxOxides of NitrogenngNanogramPMParticulate MatterPM10Particulate Matter equal to or less than 10 microns in diameterPM2.5Particulate Matter equal to or less than 2.5 microns in diameterpphPounds per hourppmParts per millionppmvParts per million by volumeppmwParts per million by weightpsiaPounds per square inch absolutepsigPounds per square inch gaugescfStandard cubic feetsecSecondsSO2Sulfur DioxideTACToxic Air ContaminantTempTemperatureTHCTotal HydrocarbonstpyTons per yearµgMicrogramµmMicrometer or MicronVOCVolatile Organic Compounds |   |  |
| ngNanogramPMParticulate MatterPM10Particulate Matter equal to or less than 10 microns in diameterPM2.5Particulate Matter equal to or less than 2.5 microns in diameterpphPounds per hourppmParts per millionppmvParts per million by volumeppmwParts per million by volumepsiaPounds per square inch absolutepsigPounds per square inch gaugescfStandard cubic feetsecSecondsSO2Sulfur DioxideTACToxic Air ContaminantTempTemperatureTHCTotal HydrocarbonstpyTons per yearµgMicrogramµmMicrometer or MicronVOCVolatile Organic Compounds                      | NMOC  | Non-Methane Organic Compounds  |
| PMParticulate MatterPM10Particulate Matter equal to or less than 10 microns in diameterPM2.5Particulate Matter equal to or less than 2.5 microns in diameterpphPounds per hourppmParts per millionppmvParts per million by volumeppmwParts per million by weightpsiaPounds per square inch absolutepsigPounds per square inch gaugescfStandard cubic feetsecSecondsSO2Sulfur DioxideTACToxic Air ContaminantTempTemperatureTHCTotal HydrocarbonstpyTons per yearµgMicrogramµmMicrometer or MicronVOCVolatile Organic Compounds                                | NOx   | Oxides of Nitrogen   |
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| tpyTons per yearμgMicrogramμmMicrometer or MicronVOCVolatile Organic Compounds  | Temp  |  |
| μg Microgram<br>μm Micrometer or Micron<br>VOC Volatile Organic Compounds   | THC   | Total Hydrocarbons   |
| μm Micrometer or Micron<br>VOC Volatile Organic Compounds   | tpy   | Tons per year  |
| VOC Volatile Organic Compounds  | μg  | Microgram  |
|   | •   |  |
| yr Year   |   | •  |
|   | 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**)
- 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<br>(Including Process Equipment & Control<br>Device(s))   | Installation<br>Date /<br>Modification<br>Date | Flexible Group ID |
|------------------|---|--|-------------------|
| EU-WC500         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |
| EU-WC502         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |
| EU-WC504         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |
| EU-WC505         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |
| EU-WC506         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |
| EU-WC507         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |
| EU-WC509         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |
| EU-WC510         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |
| EU-WC512         | One spot welding unit that utilizes robotically applied paste adhesive (non-spray). | 06-2017 /<br>10-31-2022                        | FG-WELDING        |

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

# FLEXIBLE GROUP SPECIAL CONDITIONS

# FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

| Flexible Group ID | Flexible Group Description                              | Associated<br>Emission Unit IDs  |
|-------------------|---|--|
| FG-WELDING        | Nine spot welding units that utilize adhesive coatings. | EU-WC500, EU-WC502,<br>EU-WC504, EU-WC505,<br>EU-WC506, EU-WC507,<br>EU-WC509, EU-WC510,<br>EU-WC512 |

# FG-WELDING FLEXIBLE GROUP CONDITIONS

#### **DESCRIPTION**

Nine spot welding units that utilize adhesive coatings.

**Emission Unit:** EU-WC500, EU-WC502, EU-WC504, EU-WC505, EU-WC506, EU-WC507, EU-WC509, EU-WC510, EU-WC512

#### POLLUTION CONTROL EQUIPMENT

NA

#### I. EMISSION LIMIT(S)

| Pollutant | Limit    | Time Period /<br>Operating Scenario   | Equipment  | Monitoring /<br>Testing<br>Method | Underlying<br>Applicable<br>Requirements |
|-----------|----------|---|------------|-----------------------------------|--|
| 1. VOCs   | 0.93 tpy | 12-month rolling time<br>period as determined at<br>the end of each<br>calendar month | FG-WELDING | SC VI.3                           | R 336.1702(a)                            |

#### II. MATERIAL LIMIT(S)

| Material | Limit                        | Time Period /<br>Operating Scenario | Equipment                               | Monitoring /<br>Testing<br>Method | Underlying<br>Applicable<br>Requirements |
|----------|------------------------------|-------------------------------------|---|-----------------------------------|--|
| 1. VOCs  | 0.10 lb/gal<br>(minus water) | Instantaneous                       | Each EU in<br>FG-WELDING,<br>separately | SC V.1, SC VI.3                   | R 336.1702(a)                            |

### 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 336.1225, R 336.1702(a))
- 2. 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 336.1225, R 336.1702(a))

#### 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, 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 30<sup>th</sup> 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 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 336.1225, R 336.1702)
- 3. The permittee shall keep the following information on a monthly basis for FG-WELDERS:
  - a) Gallons (with water) of each material used.
  - b) VOC content (minus water and with water) of each material as applied.
  - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
  - d) 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.

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(a))

#### VII. <u>REPORTING</u>

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:

1. The permittee shall only exhaust FG-WELDERS to the general in-plant environment. (R 336.1331, 40 CFR 52.21(c) & (d))

#### IX. OTHER REQUIREMENT(S)

1. Within 30 days of issuance of this permit, the permittee shall label the separate EUs in FG-WELDERS according to a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)** 

#### Footnotes:

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