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

February 16, 2024

PERMIT TO INSTALL 4-14B

ISSUED TO Clarios APS Production, LLC

## LOCATED AT 70 West 48<sup>th</sup> Street Holland, Michigan 49423

IN THE COUNTY OF

Allegan

# STATE REGISTRATION NUMBER P0194

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, 2023

DATE PERMIT TO INSTALL APPROVED: February 16, 2024	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

# PERMIT TO INSTALL

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# **COMMON ACRONYMS**

FGFlexible GroupGACSGallons of Applied Coating SolidsGCGeneral ConditionGHGsGreenhouse GasesHVLPHigh Volume Low Pressure*IDIdentificationIRSLInitial Risk Screening LevelLTSLInitial Threshold Screening LevelLAERLowest Achievable Emission RateMACTMaximum Achievable Control TechnologyMAERSMichigan Air Emissions Reporting SystemMAPMalfunction Abatement PlanMDEQMichigan Department of Environmental QualityMSDSMaterial Safety Data SheetNANot ApplicableNASRNew Source Performance StandardsNSRNew Source ReviewPSPerformance SpecificationPTEPermanent Total EnclosurePTIPermit to InstallRACTReasonable Available Control TechnologyROPRenewable Operating PermitSCSpecial ConditionSNRSelective Catalytic ReductionSNRSelective Review N
VE VISIDIE EMISSIONS

# POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm BTU °C CO CO <sub>2</sub> e dscf dscm °F gr HAP Hg hr HP H <sub>2</sub> S kW lb m m mg mm MM MW NMOC NO <sub>x</sub> ng PM PM10 PM10 PM2.5 pph PM10 PM10 PM2.5 pph ppmv ppmv ppmv ppmv psia psig scf sec SO <sub>2</sub> TAC Temp THC tpy Hg	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 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 volume Parts per million by weight Pounds per square inch absolute Pounds
μg	Microgram
μm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

## **GENERAL CONDITIONS**

- 1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. (R 336.1201(1))
- 2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. (R 336.1201(4))
- 3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. (R 336.1201(6)(b))
- 4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. (R 336.1201(8), Section 5510 of Act 451, PA 1994)
- 5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. (R 336.1219)
- 6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. (R 336.1901)
- 7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). (R 336.1912)
- 8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
- 9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
- 10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

- 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). (R 336.1301)
  - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
  - b) A visible emission limit specified by an applicable federal new source performance standard.
  - c) A visible emission limit specified as a condition of this Permit to Install.
- 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). (R 336.1370)
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. (R 336.2001)

# **EMISSION UNIT SPECIAL CONDITIONS**

## EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EULIWELDING	Welding operations. Controlled by a dust collector and vented to the general in-plant environment.	February 2011/ June 6, 2014	NA
EULIELECTROLYTE	Electrolyte addition and final cell assembly. No emissions due to closed electrolyte handling system except for during electrolyte cylinder connection and disconnection due to quick-connect fittings.	February 2011/ June 6, 2014	NA
EULICLEANUP	Cleaning of Dry Clean Room and other areas within the plant with solvent for particle count reduction.	February 2011/ June 6, 2014	NA
EULIFORMATION	Formation operations involving the placement of a temporary seal on the battery cells, followed by the heating and cooling, and replacement of temporary seal with a permanent seal.	February 2011/ June 6, 2014/ April 2019	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.

# EULIWELDING EMISSION UNIT CONDITIONS

#### DESCRIPTION

Welding operations. Controlled by a dust collector and vented to the general in-plant environment.

#### Flexible Group ID: NA

## POLLUTION CONTROL EQUIPMENT

Dust filtration collection system

## I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements		
1. PM	0.01 lbs per 1,000 lbs of exhaust gas, calculated on a dry basis		EULIWELDING	GC 13	R 336.1331		
* Test Protocol shall specify averaging time							

\* Test Protocol shall specify averaging time

## II. MATERIAL LIMIT(S)

NA

## III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

## IV. DESIGN/EQUIPMENT PARAMETER(S)

 The permittee shall not operate EULIWELDING unless the dust filtration collection system is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes, but is not limited to, maintaining the dust filtration collection system according to manufacturer's specifications. (R 336.1224, R 336.1225, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (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

## 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:

 The exhaust gases from EULIWELDING shall be vented to the general in-plant environment, and not directly discharged through a dedicated stack to the outside ambient air at any time. (R 336.1224, R 336.1225, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))

## IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

# EULICLEANUP EMISSION UNIT CONDITIONS

#### DESCRIPTION

Cleaning of Dry Clean Room and other areas within the plant with solvent for particle count reduction.

#### Flexible Group ID: NA

## POLLUTION CONTROL EQUIPMENT

NA

## I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	2.5 tpy	12-month rolling time period as determined at the end of each calendar month		SC VI.2	R 336.1225, R 336.1702(a)

## II. MATERIAL LIMIT(S)

 The permittee shall not use more than 5,000 pounds of VOC in the total clean-up solvent usage per year based on a 12-month rolling period as determined at the end of each calendar month. (R 336.1205, R 336.1225, R 336.1702(a))

## III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste clean-up solvent and shall store it in closed containers. The permittee shall dispose of all waste clean-up solvent in an acceptable manner in compliance with all applicable state rules and federal regulations. (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))

 The permittee shall determine the VOC content and density of any clean-up solvent, as received and as utilized, using manufacturer's formulation data and/or Safety Data Sheets. Upon request by the AQD District Supervisor, the permittee shall determine the VOC content of any clean-up solvent using federal Reference Test Method 24. 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(a), 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 complete all required calculations/records in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise

specified in any monitoring/recordkeeping special condition. (R 336.1205(3), R 336.1225, R 336.1702(a), R 336.1910)

- 2. The permittee shall keep the following information on a monthly basis for the use of clean-up materials associated with EULICLEANUP:
  - a) Gallons of each material used and reclaimed.
  - b) VOC content, in pounds per gallon, of each material used.
  - 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 on file at the facility, in a format acceptable to the AQD District Supervisor, and make them available to the Department upon request. (R 336.1205(3), R 336.1225, R 336.1702(a))

3. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each clean-up material, 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 at the facility 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)

NA

## IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

# EULIFORMATION EMISSION UNIT CONDITIONS

#### DESCRIPTION

Formation operations involving the placement of a temporary seal on the battery cells, followed by the heating and cooling, and replacement of temporary seal with a permanent seal.

#### Flexible Group ID: NA

#### POLLUTION CONTROL EQUIPMENT

NA

#### I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period / Operating Scenario		Monitoring / Testing Method	Underlying Applicable Requirements
1.	VOC	0.06 tpy	12-month rolling time period as determined at the end of each calendar	EULIFORMATION	SC VI.2	R 336.1225, R 336.1702(a)
			month			

## 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))

- 1. The permittee shall complete all required calculations/records in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1225, R 336.1702(a))
- 2. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period VOC emission calculation records for EULIFORMATION using a method acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. (R 336.1225, 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:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements		
1. SVLIFORMATION <sup>A</sup>	6	21	R 336.1225,		
			40 CFR 52.21(c) & (d)		
<sup>A</sup> This stack is discharged horizontally to the ambient air.					

# IX. OTHER REQUIREMENT(S)

NA

## Footnotes:

# EULIELECTROLYTE EMISSION UNIT CONDITIONS

#### DESCRIPTION

Electrolyte addition and final cell assembly. No emissions due to closed electrolyte handling system except for during electrolyte cylinder connection and disconnection due to quick-connect fittings.

#### Flexible Group ID: NA

## POLLUTION CONTROL EQUIPMENT

NA

## I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
2. VOC	1.03 tpy	12-month rolling time	EULIELECTROLYTE	SC VI.2	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)

NA

## IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

## V. <u>TESTING/SAMPLING</u>

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

NA

#### VI. MONITORING/RECORDKEEPING

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

- 1. The permittee shall complete all required calculations/records in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1225, R 336.1702(a))
- 2. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period VOC emission calculation records for EULIELECTROLYTE using a method acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. (R 336.1225, R 336.1702(a))

# VII. <u>REPORTING</u>

NA

# VIII. STACK/VENT RESTRICTION(S)

NA

# IX. OTHER REQUIREMENT(S)

NA

#### Footnotes: