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

August 12, 2022

PERMIT TO INSTALL 111-22

ISSUED TO

LOCATED AT 19200 Glendale Detroit, Michigan 48228

IN THE COUNTY OF Wayne

STATE REGISTRATION NUMBER B4795

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:				
July 26, 2022				
•				
DATE PERMIT TO INSTALL APPROVED:	SIGNATURE:			
August 12, 2022				
DATE DEDMIT VOIDED	OLOMATURE			
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
EUANO-1	7
EUANO-2	10

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 2 of 12

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.

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 3 of 12

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 gauge

scf Standard cubic feet

sec Seconds SO₂ Sulfur Dioxide

TAC Toxic Air Contaminant

Temp Temperature
THC Total Hydrocarbons
tpy Tons per year
µg Microgram

µm Micrometer or Micron

VOC Volatile Organic Compounds

yr Year

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 4 of 12

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.

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 5 of 12

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)

 IHC LLC (B4795)
 August 12, 2022

 Permit No. 111-22
 Page 6 of 12

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))	Flexible Group ID
EUANO-1	Aluminum anodizing line consisting of hardcoat, deoxidizing and anodizing tanks. Emissions will be controlled through the use of high efficiency fume scrubbers, and mist eliminator with high efficiency packing media.	NA
EUANO-2	Aluminum anodizing line consisting of hardcoat, deoxidizing and anodizing tanks. Emissions will be controlled through the use of high efficiency fume scrubbers, and mist eliminator with high efficiency packing media.	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.

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 7 of 12

EUANO-1 EMISSION UNIT CONDITIONS

DESCRIPTION

Aluminum anodizing line consisting of hardcoat, deoxidizing and anodizing tanks. Emissions will be controlled through the use of high efficiency fume scrubbers, and mist eliminator with high efficiency packing media.

Flexible Group: NA

POLLUTION CONTROL EQUIPMENT

Fume scrubber and mist eliminator

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate EUANO-1 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for its associated acid scrubber and mist eliminator, 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 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the anodizing or hardcoat tanks in EUANO-1 unless its associated packed bed scrubber system with mist eliminators is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining and operating the packed bed scrubber system with mist eliminators using the proper pressure drop, water flow, and pH specified by the manufacturer. All

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 8 of 12

manufacturer specifications shall be included in the MAP, as required in SC III.1. (R 336.1224, R 336.1225, R 336.1910)

- The permittee shall install, calibrate, maintain and operate in a satisfactory manner, for EUANO-1, a device to monitor the pressure drop across the packed bed scrubber system on a continuous basis. (R 336.1224, R 336.1225, R 336.1910)
- 3. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, for EUANO-1, a device to monitor the liquid flow, in gallons per minute, for the packed bed scrubber system on a continuous basis. (R 336.1224, R 336.1225, R 336.1910)
- The permittee shall install, calibrate, maintain and operate in a satisfactory manner, for EUANO-1, a device to monitor the pH for the packed bed scrubber system on a continuous basis. (R 336.1224, R 336.1225, R 336.1910)

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

- 1. The permittee shall perform inspections of each packed bed scrubber system as follows:
 - a) Determine pressure drop across the packed bed scrubber system once each day that the associated tank(s) is operating. If the pressure drop across the control varies by more than what is recommended by the manufacturer specifications, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) The permittee shall monitor the water flow into the packed bed scrubber system on a continuous basis using an automated system. The permittee shall record instances (alarms) when the water flow is below the flow rate identified in the malfunction abatement plan, as required by SC III.1.
 - c) The permittee shall monitor and record the pH of the acid scrubber liquid on a weekly basis.
 - d) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - e) Visually inspect the back portion of the mist eliminator, on a quarterly basis, to ensure that it is dry and there is no breakthrough.
 - f) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks. (R 336.1224, R 336.1225, R 336.1910)
- The permittee shall keep, in a satisfactory manner, records of the daily pressure drop readings, daily water flow to the packed bed scrubber system, pH readings and the inspections of the packed bed scrubber system on file at the facility and make them available to the Department upon request. (R 336.1224, R 336.1225, R 336.1910)

VII. REPORTING

1. 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 operation of EUANO-1. (R 336.1201(7)(a))

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 9 of 12

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. SVANO1	42	35	R 336.1225, 40 CFR 52.21 (c)&(d)

IX. OTHER REQUIREMENT(S)

1. Within 30 days of the completion of the installation of EUANO-1, the permittee shall label the tanks 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:

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

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 10 of 12

EUANO-2 EMISSION UNIT CONDITIONS

DESCRIPTION

Aluminum anodizing line consisting of hardcoat, deoxidizing and anodizing tanks. Emissions will be controlled through the use of high efficiency fume scrubbers, and mist eliminator with high efficiency packing media.

Flexible Group: NA

POLLUTION CONTROL EQUIPMENT

Fume scrubber and mist eliminator

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate EUANO-2 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for its associated acid scrubber and mist eliminator, 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 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the anodizing or hardcoat tanks in EUANO-2 unless its associated packed bed scrubber system with mist eliminators is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining and operating the packed bed scrubber system with mist eliminators using the proper pressure drop, water flow, and pH specified by the manufacturer. All

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 11 of 12

manufacturer specifications shall be included in the MAP, as required in SC III.1. (R 336.1224, R 336.1225, R 336.1910)

- The permittee shall install, calibrate, maintain and operate in a satisfactory manner, for EUANO-2, a device to monitor the pressure drop across the packed bed scrubber system on a continuous basis. (R 336.1224, R 336.1225, R 336.1910)
- 3. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, for EUANO-2, a device to monitor the liquid flow, in gallons per minute, for the packed bed scrubber system on a continuous basis. (R 336.1224, R 336.1225, R 336.1910)
- 4. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, for EUANO-2, a device to monitor the pH for the packed bed scrubber system on a continuous basis. (R 336.1224, R 336.1225, R 336.1910)

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

- 1. The permittee shall perform inspections of each packed bed scrubber system as follows:
 - a) Determine pressure drop across the packed bed scrubber system once each day that the associated tank(s) is operating. If the pressure drop across the control varies by more than what is recommended by the manufacturer specifications, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) The permittee shall monitor the water flow into the packed bed scrubber system on a continuous basis using an automated system. The permittee shall record instances (alarms) when the water flow is below the flow rate identified in the malfunction abatement plan, as required by SC III.1.
 - c) The permittee shall monitor and record the pH of the acid scrubber liquid on a weekly basis.
 - d) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - e) Visually inspect the back portion of the mist eliminator, on a quarterly basis, to ensure that it is dry and there is no breakthrough.
 - f) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks. (R 336.1224, R 336.1225, R 336.1910)
- 2. The permittee shall keep, in a satisfactory manner, records of the daily pressure drop readings, daily water flow to the packed bed scrubber system, pH readings and the inspections of the packed bed scrubber system on file at the facility and make them available to the Department upon request. (R 336.1224, R 336.1225, R 336.1910)

VII. REPORTING

1. 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 operation of EUANO-2 (R 336.1201(7)(a))

IHC LLC (B4795)

Permit No. 111-22

August 12, 2022

Page 12 of 12

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. SVANO2	42	35	R 336.1225, 40 CFR 52.21 (c)&(d)

IX. OTHER REQUIREMENT(S)

1. Within 30 days of the completion of the installation of EUANO-2, the permittee shall label the tanks 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:

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