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

July 16, 2020

PERMIT TO INSTALL
210-10E

ISSUED TO
McGean-Rohco, Inc.

LOCATED AT
38521 Schoolcraft Road
Livonia, Michigan 48150

IN THE COUNTY OF
Wayne

STATE REGISTRATION NUMBER
B3316

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: **May 28, 2020**	
DATE PERMIT TO INSTALL APPROVED: **July 16, 2020**	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	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
IRSL	Initial Risk Screening Level
ITSL	Initial Threshold Screening Level
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MAERS	Michigan 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
CO_2e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H_2S	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
SO_2	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

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
EUTANK1	1000-gallon stainless steel specialty chemical mixing tank. Emissions from tank are controlled by a packed bed scrubber		FGLIQUIDS1
EUTANK2	1800-gallon stainless steel specialty chemical mixing tank. Emissions from tank are controlled by a packed bed scrubber		FGLIQUIDS1
EUTANK3	6000-gallon stainless steel specialty chemical mixing tank. Emissions from tank are controlled by a packed bed scrubber		FGLIQUIDS1
EUTANK4	300-gallon stainless steel specialty chemical mixing tank. Emissions from tank are controlled by a packed bed scrubber		FGLIQUIDS1
EUTANK6	3000-gallon crosslinked polyethylene construction, cone bottom specialty chemical mixing tank. Emissions from tank are controlled by a packed bed scrubber.	8/6/2019	FGLIQUIDS1
EUTANK9	6000-gallon stainless steel specialty chemical mixing tank. Emissions from tank are controlled by a packed bed scrubber		FGLIQUIDS1
EUSTORAGETANK	3500-gallon storage tank. Emissions from tank controlled by conservation vent.		FGLIQUIDS1
EUTANK20	600-gal stainless steel mix tank. Emissions from tank are controlled by a packed bed scrubber.	7/16/2020	FGLIQUIDS2
EUTANK21	325-gal stainless steel heated mix tank, with steam jacket. Emissions from tank are controlled by a packed bed scrubber.	7/16/2020	FGLIQUIDS2
EUTANK22	1100-gal stainless steel mix tank. Emissions from tank are controlled by a packed bed scrubber.	7/16/2020	FGLIQUIDS2
EUTANK23	600-gal stainless steel mix tank. Emissions from tank are controlled by a packed bed scrubber.	7/16/2020	FGLIQUIDS2
EUTANK24	300-gal portable stainless steel mix tank. Emissions from tank are controlled by a packed bed scrubber.	7/16/2020	FGLIQUIDS2
EUTANK25	140-gal portable stainless steel mix tank	7/16/2020	FGLIQUIDS2

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 Emission Unit IDs
FGLIQUIDS1	6 Specialty chemical mixing tanks are controlled by a packed bed scrubber and the storage tank is controlled by conservation vent. The scrubber is shared with FGLIQUIDS2.	EUTANK1, EUTANK2, EUTANK3, EUTANK4, EUTANK6, EUTANK9, EUSTORAGETANK
FGLIQUIDS2	Six specialty chemical mixing tanks are controlled by a packed bed scrubber. The scrubber is shared with FGLIQUIDS1.	EUTANK20, EUTANK21, EUTANK22, EUTANK23, EUTANK24, EUTANK25

FGLIQUIDS1
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Six (6) Specialty chemical mixing tanks are controlled by a packed bed scrubber and the storage tank is controlled by conservation vent.

Emission Units: EUTANK1, EUTANK2, EUTANK3, EUTANK4, EUTANK6, EUTANK9, EUSTORAGETANK

POLLUTION CONTROL EQUIPMENT

Packed bed scrubber and conservation vent

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Methylene Chloride	2000 lb/yr	12-month rolling time period as determined at the end of each calendar month	FGLIQUIDS1	SC VI.2, VI.3, VI.4	R 336.1225
2. Hydrogen Chloride	100 lb/yr	12-month rolling time period as determined at the end of each calendar month	FGLIQUIDS1	SC VI.2, VI.3, VI.5	R 336.1225
3. Hexavalent Chromium	1.6×10^{-4} lb/hr	Hourly	FGLIQUIDS1	SC V.1, VI.2, VI.3	R 336.1225

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any mixing tank in FGLIQUIDS1 unless the packed bed scrubber is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the packed bed scrubber includes, but is not limited to, maintaining a minimum scrubber liquid flow rate of 60 gallons per minute. **(R 336.1225, R 336.1702, R 336.1910, 40 CFR 52.21(c)&(d))**

2. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, a device to monitor the scrubber liquid flow rate for the packed bed scrubber on a continuous basis. **(R 336.1225, R 336.1702, R 336.1910, 40 CFR 52.21(c)&(d))**

3. The permittee shall not operate EUSTORAGETANK unless the conservation vent is installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1225, R 336.1910)**

V. TESTING/SAMPLING

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

1. Testing of the hexavalent chromium emission rate from FGLIQUIDS1, at the permittee's expense and in accordance with Department requirements, may be required upon written request by the AQD District Supervisor. Testing shall take place within 90 days of receiving the written request. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; 40 CFR Part 61, Appendix B; or 40 CFR Part 63, Appendix A. 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 336.1224, R 336.1225, R 336.1902, 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 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 336.1910)**

2. The permittee shall monitor, in a satisfactory manner, the wet scrubber liquid flow rate on a continuous basis. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

3. The permittee shall keep, in a satisfactory manner, records of the packed bed scrubber liquid flow rate at least once per day while any mixing tank in FGLIQUIDS1 is operating. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910, 40 CFR 52.21(c)&(d)))**

4. The permittee shall calculate and keep, in a satisfactory manner, records of the methylene chloride emissions from FGLIQUIDS1 for each month and 12-month rolling time period, as determined at the end of each calendar month. The calculations shall be performed using a method acceptable to the District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request.[1] **(R 336.1225)**

5. The permittee shall calculate and keep, in a satisfactory manner, records of the hydrogen chloride emissions from FGLIQUIDS1 for each month and 12-month rolling time period, as determined at the end of each calendar month. The calculations shall be performed using a method acceptable to the District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request.[1] **(R 336.1225)**

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. SVSCRUBBER	22	36	R 336.1225 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

NA

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

FGLIQUIDS2
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Seven specialty chemical mixing tanks are controlled by a packed bed scrubber

Emission Units: EUTANK20, EUTANK21, EUTANK22, EUTANK23, EUTANK24, EUTANK25

POLLUTION CONTROL EQUIPMENT

Packed bed scrubber

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Liquid materials used	975,000 lbs per year	12-month rolling time period as determined at the end of each calendar month	FGLIQUIDS2	SC VI.4	R 336.1224, R 336.1702(a)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any mixing tank in FGLIQUIDS2 unless the packed bed scrubber is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the packed bed scrubber includes, but is not limited to, maintaining a minimum scrubber liquid flow rate of 60 gallons per minute. **(R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, 40 CFR 52.21(c)&(d))**

2. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, a device to monitor the scrubber liquid flow rate for the packed bed scrubber on a continuous basis. **(R 336.1224, R 336.1225, R 336.1702(a), 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))**

1. The permittee shall complete all required 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 336.1224, R 336.1702(a), R 336.1910)**

2. The permittee shall monitor, in a satisfactory manner, the wet scrubber liquid flow rate on a continuous basis. **(R 336.1910)**

3. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, records of the packed bed scrubber liquid flow rate at least once per day while any mixing tank in FGLIQUIDS2 is operating. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1910)**

4. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, records of the amount of liquid materials used in FGLIQUIDS2 monthly, for the preceding 12-month rolling time period. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1702(a))**

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. SVSCRUBBER	22	36	R 336.1225 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

NA

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