

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

December 7, 2018

PERMIT TO INSTALL
119-18

ISSUED TO
Marsh Plating Corporation

LOCATED AT
103 North Grove Street
Ypsilanti, Michigan

IN THE COUNTY OF
Washtenaw

STATE REGISTRATION NUMBER
B2576

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. 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: September 11, 2018 | |
| DATE PERMIT TO INSTALL APPROVED: December 7, 2018 | SIGNATURE: |
| DATE PERMIT VOIDED: | SIGNATURE: |
| DATE PERMIT REVOKED: | SIGNATURE: |

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

| Common Acronyms | | Pollutant / Measurement Abbreviations | |
|---------------------------|--|--|---|
| AQD | Air Quality Division | acfm | Actual cubic feet per minute |
| BACT | Best Available Control Technology | BTU | British Thermal Unit |
| CAA | Clean Air Act | °C | Degrees Celsius |
| CAM | Compliance Assurance Monitoring | CO | Carbon Monoxide |
| CEM | Continuous Emission Monitoring | CO _{2e} | Carbon Dioxide Equivalent |
| CFR | Code of Federal Regulations | dscf | Dry standard cubic foot |
| COM | Continuous Opacity Monitoring | dscm | Dry standard cubic meter |
| Department/ department | Michigan Department of Environmental Quality | °F | Degrees Fahrenheit |
| EU | Emission Unit | gr | Grains |
| FG | Flexible Group | HAP | Hazardous Air Pollutant |
| GACS | Gallons of Applied Coating Solids | Hg | Mercury |
| GC | General Condition | hr | Hour |
| GHGs | Greenhouse Gases | HP | Horsepower |
| HVLP | High Volume Low Pressure* | H ₂ S | Hydrogen Sulfide |
| ID | Identification | kW | Kilowatt |
| IRSL | Initial Risk Screening Level | lb | Pound |
| ITSL | Initial Threshold Screening Level | m | Meter |
| LAER | Lowest Achievable Emission Rate | mg | Milligram |
| MACT | Maximum Achievable Control Technology | mm | Millimeter |
| MAERS | Michigan Air Emissions Reporting System | MM | Million |
| MAP | Malfunction Abatement Plan | MW | Megawatts |
| MDEQ | Michigan Department of Environmental Quality | NMOC | Non-methane Organic Compounds |
| MSDS | Material Safety Data Sheet | NO _x | Oxides of Nitrogen |
| NA | Not Applicable | ng | Nanogram |
| NAAQS | National Ambient Air Quality Standards | PM | Particulate Matter |
| NESHAP | National Emission Standard for Hazardous Air Pollutants | PM10 | Particulate Matter equal to or less than 10 microns in diameter |
| NSPS | New Source Performance Standards | PM2.5 | Particulate Matter equal to or less than 2.5 microns in diameter |
| NSR | New Source Review | pph | Pounds per hour |
| PS | Performance Specification | ppm | Parts per million |
| PSD | Prevention of Significant Deterioration | ppmv | Parts per million by volume |
| PTE | Permanent Total Enclosure | ppmw | Parts per million by weight |
| PTI | Permit to Install | psia | Pounds per square inch absolute |
| RACT | Reasonable Available Control Technology | psig | Pounds per square inch gauge |
| ROP | Renewable Operating Permit | scf | Standard cubic feet |
| SC | Special Condition | sec | Seconds |
| SCR | Selective Catalytic Reduction | SO ₂ | Sulfur Dioxide |
| SNCR | Selective Non-Catalytic Reduction | TAC | Toxic Air Contaminant |
| SRN | State Registration Number | Temp | Temperature |
| TEQ | Toxicity Equivalence Quotient | THC | Total Hydrocarbons |
| USEPA/EPA | United States Environmental Protection Agency | tpy | Tons per year |
| VE | Visible Emissions | µg | Microgram |
| | | µm | Micrometer or Micron |
| | | VOC | Volatile Organic Compounds |
| | | yr | Year |

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

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 Environmental Quality, 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 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 R 336.1219 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 R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(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 R 336.1301, 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 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 R 336.1370(2). **(R 336.1370)**

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

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 (Process Equipment & Control Devices) | Flexible Group ID |
|------------------|--|-------------------|
| EULINE2 | An electroplating line consisting of eight tanks: one soak cleaner tank (Tank 2-1), two electro cleaner tanks (Tanks 2-2 and 2-3), two acid tanks (Tanks 2-4 and 2-5), two Zinc Nickel tanks (Tanks 2-6 and 2-7), and one acid Zinc Nickel tank (Tank 2-8) with air agitation. Two scrubbers control the tanks on this line. The first packed bed scrubber system (L2 Clean/Acid) controls tanks 2-1, 2-2, 2-3, 2-4, 2-5, and 2-8. The second packed bed scrubber system (L2 Plate) controls tanks 2-6 and 2-7. | NA |
| EULINE3 | An electroplating line consisting of eight tanks: one hot water tank (Tank 3-1), a soak cleaner tank (Tank 3-2), two electro cleaner tanks (Tanks 3-3 and 3-4), two acid tanks (Tanks 3-5 and 3-6), and two Zinc Nickel tanks (Tanks 3-7 and 3-8). Two scrubber systems control the tanks on this line. The first packed bed scrubber system (L3 Clean) controls tanks 3-1, 3-2, 3-3, 3-4, 3-5, and 3-6. The second packed bed scrubber system (L3 Plate) controls tanks 3-7 and 3-8. | NA |
| EULINE4 | An electroplating line consisting of eight tanks: two soak cleaner tanks (Tanks 4-1 and 4-2), two electro cleaner tanks (Tanks 4-3 and 4-4), two acid tanks (Tanks 4-5 and 4-6), one acid Zinc tank (Tank 4-7), and one Zinc Nickel tank (Tank 4-8). Two scrubber systems control the tanks on this line. The first scrubber system (L4 Clean) controls tanks 4-1, 4-2, 4-3, 4-4, 4-5, and 4-6, and the second scrubber system (L4/L6 Plate) controls tanks 4-7, and 4-8 as well as tank 6-5 on Line 6. | NA |
| EULINE5 | An electroplating line consisting of seven tanks: one soak cleaner tank (Tank 5-1), two electro cleaner tanks (Tanks 5-2 and 5-3), two acid tanks (Tanks 5-4 and 5-5), an acid Zinc tank (Tank 5-6), and a Zinc Nickel tank (Tank 5-7). All of the tanks on this line are controlled by the same packed bed scrubber system (L5). | NA |
| EULINE6 | A dip line consisting of five tanks: one soak cleaner tank (Tank 6-1), two electro cleaner tanks (Tanks 6-2 and 6-3), an acid tank (Tank 6-4), and a Zinc tank (Tank 6-5). Emissions from the tanks on Line 6 are controlled are controlled by three scrubber systems. The first scrubber system (L6/L7 Clean) controls tanks 6-1, 6-2, and 6-3 as well as tanks 7-1 and 7-2 on Line 7. The second scrubber system (L6 Acid) controls tanks 6-4. The third scrubber system (L4/L6 Plate) controls tank 6-5 in addition to tanks 4-7 and 4-8 on Line 4. | NA |
| EULINE7 | A dip line consisting of three tanks: one spray cleaner tank (Tank 7-1), one soak cleaner tank (Tank 7-2), and one phosphate tank (Tank 7-3). Emissions from the tanks on Line 7 are controlled by a scrubber system. Scrubber system (L6/L7 Clean) controls tanks 7-1 and 7-2 in addition to Tanks 6-1, 6-2, and 6-3 on Line 6. | NA |

| Emission Unit ID | Emission Unit Description (Process Equipment & Control Devices) | Flexible Group ID |
|--|--|--------------------------|
| EULINE8 | An electroplating line consisting of six tanks: one soak cleaner tank (Tank 8-1), one electro cleaner tank (Tank 8-2), two acid tanks (Tank 8-3 and 8-4), a Zinc Iron tank (Tank 8-5), and a Zinc Nickel tank (Tank 8-6). Emissions from the tanks are controlled by three packed scrubber systems. The first scrubber system (L8 Clean) controls tanks 8-1, 8-2, 8-3, and 8-4, the second scrubber system (L8 ZnFe) controls tank 8-5, and the third scrubber system (L8 ZnNi) controls tank 8-6. | 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 336.1290. | | |

The following conditions apply to: EULINE2

DESCRIPTION: An electroplating plating line consisting of eight tanks: one soak cleaner tank (Tank 2-1), two (2) electro cleaner tanks (Tanks 2-2 and 2-3), two (2) acid tanks (Tanks 2-4 and 2-5), two Zinc Nickel tanks (Tanks 2-6 and 2-7), and one acid Zinc Nickel tank (Tank 2-8) with air agitation. Two scrubbers control the tanks on this line. The first packed bed scrubber system (L2 Clean/Acid) controls tanks 2-1, 2-2, 2-3, 2-4, 2-5, and 2-8. The second packed bed scrubber system (L2 Plate) controls tanks 2-6 and 2-7.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Two packed bed scrubber systems (L2 Clean/Acid and L2 Plate)

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate any tanks in EULINE2 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the packed bed scrubber systems, 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 336.1224, R 336.1225, R 336.1331, R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate Tanks 2-1, 2-2, 2-3, 2-4, 2-5, or 2-8 in EULINE2 unless the packed bed scrubber system (L2 Clean/Acid) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1910)**

2. The permittee shall not operate Tanks 2-6 or 2-7 in EULINE2 unless the packed bed scrubber system (L2 Plate) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1910)**
3. The permittee shall equip and maintain each packed bed scrubber system with a device to monitor pressure drop on a continuous basis. **(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))**

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: **(R 336.1224, R 336.1225, R 336.1910)**
 - a) Determine pressure drop across the packed bed scrubber system on a weekly basis. If the pressure drop across the control varies by more than the recommended range as specified by the MAP, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on the packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - c) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks.
 - d) Perform all maintenance on each fume scrubber system in accordance with the MAP.
2. The permittee shall keep weekly records of the pressure drop readings. The permittee shall also keep records of all operating and maintenance information, as required in SC VI.1. All records shall be kept on file at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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-L2CleanAcid | 26.25x34.38 | 28.75 | R 336.1225, 40 CFR 52.21 (c) & (d) |
| 2. SV-L2Plate | 34 | 32.75 | R 336.1225, 40 CFR 52.21 (c) & (d) |

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants for Plating and Polishing Operations as specified in 40 CFR Part 63 Subparts A and WWWWWW, as they apply to EULINE2. **(40 CFR Part 63 Subparts A & WWWWWW)**

Footnotes:

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

The following conditions apply to: EULINE3

DESCRIPTION: An electroplating line consisting of eight tanks: one hot water tank (Tank 3-1), a soak cleaner tank (Tank 3-2), two electro cleaner tanks (Tanks 3-3 and 3-4), two acid tanks (Tanks 3-5 and 3-6), and two Zinc Nickel tanks (Tanks 3-7 and 3-8). Two scrubber systems control the tanks on this line. The first packed bed scrubber system (L3 Clean) controls tanks 3-1, 3-2, 3-3, 3-4, 3-5, and 3-6. The second packed bed scrubber system (L3 Plate) controls tanks 3-7 and 3-8.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Two packed bed scrubber systems (L3 Clean and L3 Plate)

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate any tank in EULINE3 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the packed bed scrubber systems, 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 336.1224, R 336.1225, R 336.1331, R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate Tank 3-1, 3-2, 3-3, 3-4, 3-5, or 3-6 in EULINE3 unless the packed bed scrubber system (L3 Clean) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. (R 336.1224, R 336.1225, R 336.1910)

2. The permittee shall not operate Tank 3-7 or 3-8 in EULINE3 unless the packed bed scrubber system (L3 Plate) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1910)**
3. The permittee shall equip and maintain each packed bed scrubber system with a device to monitor pressure drop on a continuous basis. **(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))**

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: **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
 - a) Determine pressure drop across the packed bed scrubber system on a weekly basis. If the pressure drop across the control varies by more than the recommended range as specified by the MAP, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on the packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - c) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks.
 - d) Perform all maintenance on each fume scrubber system in accordance with the MAP.
2. The permittee shall keep weekly records of the pressure drop readings. The permittee shall also keep records of all operating and maintenance information, as required in SC VI.1. All records shall be kept on file at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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-L3Clean | 34.75x31.25 | 38.6 | R 336.1225, 40 CFR 52.21 (c) & (d) |
| 2. SV-L3Plate | 38x29 | 30.9 | R 336.1225, 40 CFR 52.21 (c) & (d) |

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants for Plating and Polishing Operations as specified in 40 CFR Part 63 Subparts A and WWWWWW, as they apply to EULINE3. **(40 CFR Part 63 Subparts A & WWWWWW)**

Footnotes:

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

The following conditions apply to: EULINE4

DESCRIPTION: An electroplating line consisting of eight tanks: two soak cleaner tanks (Tanks 4-1 and 4-2), two electro cleaner tanks (Tanks 4-3 and 4-4), two acid tanks (Tanks 4-5 and 4-6), one acid Zinc tank (Tank 4-7), and one Zinc Nickel tank (Tank 4-8). Two scrubber systems control the tanks on this line. The first scrubber system (L4 Clean) controls tanks 4-1, 4-2, 4-3, 4-4, 4-5, and 4-6, and the second scrubber system (L4/L6 Plate) controls tanks 4-7, and 4-8 as well as tank 6-5 on Line 6.

Flexible Group ID:

POLLUTION CONTROL EQUIPMENT: Two packed bed scrubber systems (L4 Clean and L4/L6 Plate)

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate any tank in EULINE4 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the packed bed scrubber systems, 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 336.1224, R 336.1225, R 336.1331, R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate Tanks 4-1, 4-2, 4-3, 4-4, 4-5, or 4-6 in EULINE4 unless the packed bed scrubber system (L4 Clean) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. (R 336.1224, R 336.1225, R 336.1702, R 336.1910)

2. The permittee shall not operate Tanks 4-7 or 4-8 in EULINE4 unless the packed bed scrubber system (L4/L6 Plate) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
3. The permittee shall equip and maintain each packed bed scrubber system with a device to monitor pressure drop on a continuous basis. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

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 perform inspections of each packed bed scrubber system as follows: **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
 - a) Determine pressure drop across the packed bed scrubber system on a weekly basis. If the pressure drop across the control varies by more than the recommended range as specified by the MAP, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on the packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - c) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks.
 - d) Perform all maintenance on each fume scrubber system in accordance with the MAP
2. The permittee shall keep weekly records of the pressure drop readings. The permittee shall also keep records of all operating and maintenance information, as required in SC VI.1. All records shall be kept on file at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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-L4Clean | 40.88x27.25 | 35 | R 336.1225, 40 CFR 52.21 (c) & (d) |
| 2. SV-L4L6Plate | 32x42 | 34 | R 336.1225, 40 CFR 52.21 (c) & (d) |

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants for Plating and Polishing Operations as specified in 40 CFR Part 63 Subparts A and WWWWWW, as they apply to EULINE4. **(40 CFR Part 63 Subparts A & WWWWWW)**

Footnotes:

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

The following conditions apply to: EULINE5

DESCRIPTION: An electroplating line consisting of seven tanks: one soak cleaner tank (Tank 5-1), two electro cleaner tanks (Tanks 5-2 and 5-3), two acid tanks (Tanks 5-4 and 5-5), an acid Zinc tank (Tank 5-6), and a Zinc Nickel tank (Tank 5-7). All of the tanks on this line are controlled by the same packed bed scrubber system (L5).

Flexible Group ID:

POLLUTION CONTROL EQUIPMENT: A packed bed scrubber system (L5)

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate any tank in EULINE5 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the packed bed scrubber systems, 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 336.1224, R 336.1225, R 336.1331, R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate any tank in EULINE5 unless the packed bed scrubber system is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
2. The permittee shall equip and maintain each packed bed scrubber system with a device to monitor pressure drop on a continuous basis. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

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 perform inspections of the packed bed scrubber system as follows: **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
 - a) Determine pressure drop across the packed bed scrubber system on a weekly basis. If the pressure drop across the control varies by more than the recommended range as specified by the MAP, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on the packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - c) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks.
 - d) Perform all maintenance on each fume scrubber system in accordance with MAP.
2. The permittee shall keep weekly records of the pressure drop readings. The permittee shall also keep records of all operating and maintenance information, as required in SC VI.1. All records shall be kept on file at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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-L5 | 45.5 | 35 | R 336.1225, 40 CFR 52.21 (c) & (d) |

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants for Plating and Polishing Operations as specified in 40 CFR Part 63 Subparts A and WWWW, as they apply to EULINE5. **(40 CFR Part 63 Subparts A & WWWW)**

Footnotes:

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

The following conditions apply to: EULINE6

DESCRIPTION: A dip line consisting of five tanks: one soak cleaner tank (Tank 6-1), two electro cleaner tanks (Tanks 6-2 and 6-3), an acid tank (Tank 6-4), and a Zinc tank (Tank 6-5). Emissions from the tanks on Line 6 are controlled by three scrubber systems. The first scrubber system (L6/L7 Clean) controls tanks 6-1, 6-2, and 6-3 as well as tanks 7-1 and 7-2 on Line 7. The second scrubber system (L6 Acid) controls tanks 6-4. The third scrubber system controls tank 6-5 in addition to tanks 4-7 and 4-8 on Line 4 (L4/L6 Plate).

Flexible Group ID:

POLLUTION CONTROL EQUIPMENT: Three packed bed scrubber systems (L4/L6 Plate, L6 Acid, and L6/L7 Clean)

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate any tank in EULINE6 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the packed bed scrubber systems, 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 336.1224, R 336.1225, R 336.1331, R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate tanks 6-1, 6-2, or 6-3 in EULINE6 unless the packed bed scrubber system (L6/L7 Clean) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. (R 336.1224, R 336.1225, R 336.1910)

2. The permittee shall not operate tank 6-4 in EULINE6 unless the packed bed scrubber system (L6 Acid) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
3. The permittee shall not operate tank 6-5 in EULINE6 unless each packed bed scrubber system (L4/L6 Plate) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
4. The permittee shall equip and maintain each packed bed scrubber system with a device to monitor pressure drop on a continuous basis. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

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 perform inspections of each packed bed scrubber system as follows: **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
 - a) Determine pressure drop across the packed bed scrubber system on a weekly basis. If the pressure drop across the control varies by more than the recommended range as specified by the MAP, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on the packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - c) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks.
 - d) Perform all maintenance on each fume scrubber system in accordance with the MAP.
2. The permittee shall keep weekly records of the pressure drop readings. The permittee shall also keep records of all operating and maintenance information, as required in SC VI.1. All records shall be kept on file at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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-L6L7Clean | 48.88x33.25 | 35.5 | R 336.1225, 40 CFR 52.21 (c) & (d) |
| 2. SV-L6Acid | 21.5 | 31 | R 336.1225, 40 CFR 52.21 (c) & (d) |
| 3. SV-L4L6Plate | 32x42 | 34 | R 336.1225, 40 CFR 52.21 (c) & (d) |

IX. OTHER REQUIREMENTS

NA

Footnotes:

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

The following conditions apply to: EULINE7

DESCRIPTION: A dip line consisting of three tanks: one spray cleaner tank (Tank 7-1), one soak cleaner tank (Tank 7-2), and one phosphate tank (Tank 7-3). Emissions from Tanks 7-1 and 7-2 are controlled by a packed bed scrubbed system (L6/L7 Clean) in addition to Tanks 6-1, 6-2, and 6-3 on Line 6.

Flexible Group ID:

POLLUTION CONTROL EQUIPMENT: One packed bed scrubber (L6/L7 Clean). Emissions from the Phosphate tank (Tank 7-3) are uncontrolled.

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate tanks 7-1 or 7-2 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the packed bed scrubber systems, 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 336.1224, R 336.1225, R 336.1331, R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate tanks 7-1 or 7-2 in EULINE7 unless the packed bed scrubber system (L6/L7 Clean) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
2. The permittee shall equip and maintain each packed bed scrubber system with a device to monitor pressure drop on a continuous basis. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

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 perform inspections of the packed bed scrubber system as follows: **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
 - a) Determine pressure drop across the packed bed scrubber system on a weekly basis. If the pressure drop across the control varies by more than the recommended range as specified by the MAP, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on the packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - c) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks.
 - d) Perform all maintenance on each fume scrubber system in accordance with the MAP
2. The permittee shall keep weekly records of the pressure drop readings. The permittee shall also keep records of all operating and maintenance information, as required in SC VI.1. All records shall be kept on file at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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-L6L7Clean | 48.88x33.25 | 35.5 | R 336.1225, 40 CFR 52.21 (c) & (d) |

IX. OTHER REQUIREMENTS

NA

Footnotes:

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

The following conditions apply to: EULINE8

DESCRIPTION: An electroplating line consisting of six tanks: one soak cleaner tank (Tank 8-1), one electro cleaner tank (Tank 8-2), two acid tanks (Tank 8-3 and 8-4), a Zinc Iron tank (Tank 8-5), and a Zinc Nickel tank (Tank 8-6). Emissions from the tanks are controlled by three packed scrubber systems. The first scrubber system (L8 Clean) controls tanks 8-1, 8-2, 8-3, and 8-4, the second scrubber system (L8 ZnFe) controls tank 8-5, and the third scrubber system (L8 ZnNi) controls tank 8-6.

Flexible Group ID:

POLLUTION CONTROL EQUIPMENT: Three packed scrubber systems (L8 Clean, L8 ZnFe, and L8 ZnNi)

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate any tank in EULINE8 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the packed bed scrubber systems, 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 1336.224, R 336.1225, R 336.1331, R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate tanks 8-1, 8-2, 8-3, or 8-4 in EULINE8 unless the packed bed scrubber system (L8Clean) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. (R 336.1224, R 336.1225, R 336.1702, R 336.1910)

2. The permittee shall not operate tank 8-5 in EULINE8 unless the packed bed scrubber system (L8 ZnFe) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
3. The permittee shall not operate tank 8-6 in EULINE8 unless the packed bed scrubber system (L8 ZnNi) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes but is not limited to maintaining the pressure drop across the scrubber system according to the MAP required by SC III.1. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
4. The permittee shall equip and maintain each packed bed scrubber system with a device to monitor pressure drop on a continuous basis. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

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 perform inspections of each packed bed scrubber system as follows: **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
 - a) Determine pressure drop across the packed bed scrubber system on a weekly basis. If the pressure drop across the control varies by more than the recommended range as specified by the MAP, the permittee shall document the variation, and review the operation and maintenance procedures. The permittee shall document any corrective action.
 - b) Visually inspect the packed bed scrubber, on a quarterly basis, to ensure there is proper drainage, no build up on the packed beds, and no evidence of chemical attack on the structural integrity of the control device.
 - c) Visually inspect ductwork from tanks to the packed bed scrubber, on a quarterly basis, to ensure there are no leaks.
 - d) Perform all maintenance on each fume scrubber system in accordance with the MAP.
2. The permittee shall keep weekly records of the pressure drop readings. The permittee shall also keep records of all operating and maintenance information, as required in SC VI.1. All records shall be kept on file at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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-L8Clean | 36 | 35 | R 336.1225, 40 CFR 52.21 (c) & (d) |
| 2. SV-L8ZnFe | 35x26 | 36 | R 336.1225, 40 CFR 52.21 (c) & (d) |
| 3. SV-L8ZnNi | 26.5 | 40.75 | R 336.1225, 40 CFR 52.21 (c) & (d) |

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants for Plating and Polishing Operations as specified in 40 CFR Part 63 Subparts A and WWWWWW, as they apply to EULINE8. **(40 CFR Part 63 Subparts A & WWWWWW)**

Footnotes:

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