South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

| | |
|---|---|
| Title Page | |
| Facility ID: | 045938 |
| Revision #: | 7 |
| Date: | July 28, 2013 |

# FACILITY PERMIT TO OPERATE

## E.M.E. INC/ELECTRO MACHINE & ENGINEERING
## 431 E OAKS ST
## COMPTON, CA 90222

## NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By Amir Dejbakhsh
for Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## TABLE OF CONTENTS


| Section | Description | Revision # | Date Issued |
|---|---|---|---|
| A | Facility Information | 2 | 07/28/2013 |
| B | RECLAIM Annual Emission Allocation | 2 | 07/28/2013 |
| C | Facility Plot Plan | TO BE DEVELOPED | |
| D | Facility Description and Equipment Specific Conditions | 7 | 07/28/2013 |
| E | Administrative Conditions | 2 | 07/28/2013 |
| F | RECLAIM Monitoring and Source Testing Requirements | 2 | 07/28/2013 |
| G | Recordkeeping and Reporting Requirements for RECLAIM Sources | 2 | 07/28/2013 |
| H | Permit To Construct and Temporary Permit to Operate | 2 | 07/28/2013 |
| I | Compliance Plans & Schedules | 2 | 07/28/2013 |
| J | Air Toxics | 2 | 07/28/2013 |
| K | Title V Administration | 2 | 07/28/2013 |
| Appendix | | | |
| A | NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219 | 2 | 07/28/2013 |
| B | Rule Emission Limits | 2 | 07/28/2013 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION A: FACILITY INFORMATION

| | |
|---|---|
| **LEGAL OWNER &/OR OPERATOR:** | E.M.E. INC/ELECTRO MACHINE & ENGINEERING |
| **LEGAL OPERATOR (if different than owner):** | |
| **EQUIPMENT LOCATION:** | 431 E OAKS ST<br>COMPTON, CA 90222 |
| **MAILING ADDRESS:** | 431 E OAKS ST<br>COMPTON, CA 90222 |
| **RESPONSIBLE OFFICIAL:** | WESLEY TURNBOW |
| **TITLE:** | PRESIDENT |
| **TELEPHONE NUMBER:** | (310) 639-1621 |
| **CONTACT PERSON:** | WESLEY TURNBOW |
| **TITLE:** | PRESIDENT |
| **TELEPHONE NUMBER:** | (310) 639-1621 |
| **TITLE V PERMIT ISSUED:** | July 28, 2013 |
| **TITLE V PERMIT EXPIRATION DATE:** | July 27, 2018 |

| TITLE V | RECLAIM | |
|---|---|---|
| YES | NOx: | NO |
| | SOx: | NO |
| | CYCLE: | 0 |
| | ZONE: | COASTAL |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

NOT APPLICABLE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## Facility Equipment and Requirements
**(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

| Application number | Permit to Operate number | Equipment description |
|---|---|---|
| 167960 | D02069 | OVEN, BAKING |
| 167961 | D01632 | OVEN, BAKING |
| 169017 | D01628 | OVEN, DRYING |
| 220805 | D20227 | OVEN, DRYING |
| 236628 | D33361 | SPRAY BOOTH PAINT AND SOLVENT |
| 343359 | F47657 | OVEN, DRYING |
| 343360 | F47658 | OVEN, DRYING |
| 347714 | F50023 | SCRUBBER, OTHER VENTING S.S. |
| 375668 | F43880 | AIR FILTER CUSTOM |
| 376829 | F47662 | SPRAY BOOTH PAINT AND SOLVENT |
| 376830 | F47663 | SPRAY BOOTH PAINT AND SOLVENT |
| 376831 | F47664 | SPRAY BOOTH PAINT AND SOLVENT |
| 376832 | F47665 | SPRAY BOOTH PAINT AND SOLVENT |
| 377774 | F54510 | ABRASIVE BLASTING (CABINET/MACHINE/ROOM) |
| 377775 | F54508 | ABRASIVE BLASTING (CABINET/MACHINE/ROOM) |
| 377777 | F54511 | BAGHOUSE, AMBIENT TEMP (>500 SQ FT) |
| 380559 | F54509 | ABRASIVE BLASTING (CABINET/MACHINE/ROOM) |
| 380560 | G6855 | ABRASIVE BLASTING (CABINET/MACHINE/ROOM) |
| 380563 | G6857 | ABRASIVE BLASTING (CABINET/MACHINE/ROOM) |
| 380564 | G6859 | ABRASIVE BLASTING (CABINET/MACHINE/ROOM) |
| 380565 | G6860 | BAGHOUSE, AMBIENT TEMP (>500 SQ FT) |
| 418872 | F64040 | SPRAY BOOTH PAINT AND SOLVENT |
| 419000 | F64044 | SPRAY BOOTH PAINT AND SOLVENT |
| 419001 | F64046 | SPRAY BOOTH PAINT AND SOLVENT |
| 480175 | G6861 | TANK, SURFACE PREPARATION - OTHER ACIDS |
| 480191 | G6863 | TANK, SURFACE PREPARATION - OTHER ACIDS |
| 480192 | G6864 | TANK, CHROMIC ACID – ANNODIZING |
| 480196 | G6865 | TANK, SURFACE PREPARATION - OTHER ACIDS |
| 500682 | G4689 | TITANIUM ANODIZING LINE |

**NOTE:** EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## FACILITY WIDE CONDITION(S)

**Condition(s):**

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:

   A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
   B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION. [RULE 401]

2. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THIS FACILITY SHALL NOT EXCEED 143 POUNDS IN ANY ONE DAY.
   [RULE 1303(b)(2)-OFFSET]

3. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS FACILITY TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). THE RECORDS SHALL ALSO INCLUDE ALL PROCEDURES THAT ARE USED TO DETERMINE VOC EMISSIONS FROM COMBUSTION OF NATURAL GAS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
   [RULE 109, 1303(b)(2)-OFFSET]

4. MATERIAL SAFETY DATA SHEETS FOR ALL COATINGS AND SOLVENTS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
   [RULE 109, 1303(b)(2)-OFFSET]

5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.
   [RULE 431.2]

6. AFTER JUNE 1, 2004, THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
   [RULE 431.2]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. D02069**
**A/N 167960**

**Equipment Description:**

OVEN, BARON, MODEL NO. EF445; 6'-1" W. X 5'-7" L. X 7'-2" H., 18 KVA ELECTRICALLY HEATED, WITH ONE 1-H.P. EXHAUST BLOWER.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURE ABOVE 250 DEGREES F.
[RULE 401]

**Periodic Monitoring:**

4. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE OVEN. THE OPERATOR SHALL ALSO DETERMINE AND RECORD THE TEMPERATURE ONCE EVERY DAY.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. D01632**
**A/N 167961**

**Equipment Description:**

OVEN P3-O5 (OVEN 5), BROWNING, MODEL 1278; 8'-11" W. X 15'-4" L. X 7'-11" H., 69 KW ELECTRICALLY HEATED, WITH ONE 5 HP CIRCULATORY FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURE ABOVE 250 DEGREES F.
[RULE 401]

**Periodic Monitoring:**

4. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE OVEN. THE OPERATOR SHALL ALSO DETERMINE AND RECORD THE TEMPERATURE ONCE EVERY DAY.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. D01628**
**A/N 169017**

**Equipment Description:**

OVEN, 8'-0" W. X 20'-0" L. X 8'-0" H., 600,000 BTU PER HOUR, NATURAL GAS FIRED, WITH ONE 2 HP CIRCULATION FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURE ABOVE 250 DEGREES F.
[RULE 401]

4. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF RULE 1147. PRIOR TO MODIFICATION OF THIS EQUIPMENT TO COME INTO COMPLIANCE WITH THE EMISSION LIMIT OF THIS RULE, THE OPERATOR SHALL SUBMIT AN APPLICATION AND RECEIVE APPROVAL FOR CONSTRUCTION OR MODIFICATION OF THE EQUIPMENT.
[RULE 1147]

**Periodic Monitoring:**

5. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE OVEN. THE OPERATOR SHALL ALSO DETERMINE AND RECORD THE TEMPERATURE ONCE EVERY DAY.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

| | |
|---|---|
| CO: | 2000 PPM, RULE 407 |
| PM: | 0.1 gr/scf, RULE 409 |
| PM: | RULE 404, SEE APPENDIX B FOR EMISSION LIMITS |
| NOx: | 30 PPMV, RULE 1147 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. D20227**
**A/N 220805**

**Equipment Description:**

OVEN, 3'-0" W. X 6'-1" L. X 6'-1" H., 30 KW ELECTRICALLY HEATED, WITH TWO 1/3 HP CIRCULATING FANS.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURE ABOVE 300 DEGREES F.
[RULE 401]

**Periodic Monitoring:**

4. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE OVEN. THE OPERATOR SHALL ALSO DETERMINE AND RECORD THE TEMPERATURE ONCE EVERY DAY.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. D33361**
**A/N 236628**

**Equipment Description:**

SPRAY BOOTH P1-B8 (BOOTH 8), BLEEKER, FLOOR TYPE, MODEL F-12-7; 12'-0" W. X 11'-0" L. X 7'-0" H., WITH TWENTY-EIGHT 20" X 20" EXHAUST FILTERS AND ONE 2 HP EXHAUST FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AT LEAST 2 INCHES THICK.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 0.25 INCH OF WATER.
[RULE 1303(a)(1)-BACT]

5. THE TOTAL QUANTITY OF COATINGS AND REDUCERS USED IN THIS EQUIPMENT SHALL NOT EXCEED 6 GALLONS IN ANY ONE DAY.
[RULE 1303(b)(2)-OFFSET]

**Periodic Monitoring:**

6. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
   B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
   C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
   [RULE 3004(a)(4)]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

7. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 109
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 481

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F47657**
**A/N 343359**

**Equipment Description:**

OVEN P1-O10 (OVEN 10), IND-PI, ELECTRIC, 13'-0" W. X 19'-0" L. X 8'-3" H., ELECTRICALLY HEATED, WITH ONE 2 HP CIRCULATION FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND EMISSIONS FROM COATINGS AND SOLVENTS APPLIED TO ARTICLES CURED IN OVENS P1-O10 AND P1-O9 SHALL NOT EXCEED 39 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

4. COATINGS AND SOLVENTS APPLIED TO ARTICLES CURED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.
[RULE 1401]

5. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET]

**Emissions And Requirements:**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   VOC: RULE 109
   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F47658**
**A/N 343360**

**Equipment Description:**

OVEN P1-O9 (OVEN 9), IND-PI, ELECTRIC, 8'-6" W. X 19'-7" L. X 8'-3" H., ELECTRICALLY HEATED, WITH ONE 2 HP CIRCULATION FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND EMISSIONS FROM COATINGS AND SOLVENTS APPLIED TO ARTICLES CURED IN OVENS P1-O10 AND P1-O9 SHALL NOT EXCEED 39 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

4. COATINGS AND SOLVENTS APPLIED TO ARTICLES CURED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.
[RULE 1401]

5. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET]

**Emissions And Requirements:**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   VOC: RULE 109
   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F50023**
**A/N 347714**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, MANUFACTURERS NETWORK, PACKED COLUMN TYPE, MODEL NO. 7500, 4'-1" W. X 11'-4 1/2" L. X 5'-4 1/2" H., WITH LANDTEC 3.5" POLYPROPYLENE, ONE 30" DIA. X 36" H. MIST ELIMINATOR WITH 1" JAEGER TRIPACKS, 5'-6 ½" W. X 5'-6 ½' L. X 3'-0" H. BASE RECIRCULATING TANK, AND ONE 1½ H.P. RECIRCULATION PUMP.

2. EXHAUST SYSTEM EQUIPPED WITH A 5-HP BLOWER VENTING TANK 55A OF THE CHROMIC ACID ANODIZING LINE.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE EQUIPMENT TO SHOW MANUFACTURER AND MODEL NUMBER. THE TAG(S) OR PLATE(S) SHALL BE ISSUED BY THE MANUFACTURER AND SHALL BE ADHERED TO THE EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT, 1401]

4. THE EQUIPMENT SHALL BE IN FULL OPERATION WHENEVER THE TANK VENTED TO IT IS IN OPERATION.
[RULE 1303(a)(1)-BACT, 1401]

5. THE STATIC PRESSURE DIFFERENTIAL ACROSS THE SCRUBBER SHALL NOT EXCEED 1.5 INCHES OF WATER COLUMN, DURING OPERATION. THE OPERATOR SHALL KEEP WEEKLY RECORDS OF THE STATIC PRESSURE DIFFERENTIAL, IN INCHES OF WATER COLUMN, ACROSS THE SCRUBBER. THE ABOVE LIMIT MAY BE ADJUSTED BASED ON THE PRESSURE DROP DATA RECORDED DURING OPERATION OF THE SCRUBBER.
[RULE 1303(a)(1)-BACT, 1401]

6. A MECHANICAL GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE SCRUBBER. THIS SCALE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

SHALL NOT EXCEED FOUR TIMES THE LIMIT SPECIFIED IN CONDITION NO. 5.
[RULE 1303(a)(1)-BACT, 1401]

7. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO MEASURE THE RECIRCULATION LIQUID FLOW RATE IN GALLONS PER MINUTE.
[RULE 1303(a)(1)-BACT, 1401]

8. THE RECIRCULATION FLOW RATE SHALL BE MAINTAINED AT A MINIMUM OF 10 GALLONS PER MINUTE.
[RULE 1303(a)(1)-BACT, 1401]

9. THE PH OF THE RECIRCULATING SOLUTION SHALL BE MEASURED AND RECORDED DAILY AND SHALL NOT BE LESS THAN 4.0.
[RULE 1303(a)(1)-BACT, 1401]

10. THE PH MEASURING DEVICE SHALL BE CALIBRATED AT LEAST ONCE PER MONTH, AND MORE OFTEN IF NECESSARY, TO ENSURE THE ACCURACY OF THE INDICATOR READINGS.
[RULE 1303(a)(1)-BACT, 1401]

11. THE OWNER/OPERATOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR THE PACKED BED SCRUBBER LISTED BELOW:

    A. QUARTERLY VISUAL INSPECTION OF THE DEVICE TO ENSURE THERE IS PROPER DRAINAGE, NO UNUSUAL BUILDUP ON THE PACKED BEDS, AND NO EVIDENCE OF CHEMICAL ATTACK THAT AFFECTS THE STRUCTURAL INTEGRITY OF THE DEVICE.

    B. QUARTERLY VISUAL INSPECTION OF THE DUCTWORK FROM THE TANK TO THE CONTROL DEVICE TO ENSURE THERE ARE NO LEAKS.

[RULE 1303(a)(1)-BACT, 1401]

12. THE OWNER/OPERATOR SHALL MAINTAIN INSPECTION AND MAINTENANCE RECORDS FOR THE PACKED BED SCRUBBER AND MONITORING EQUIPMENT TO DOCUMENT COMPLIANCE WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS OF THIS PERMIT. THE RECORD SHALL IDENTIFY:

    A. THE DEVICE INSPECTED,

    B. THE DATE AND TIME OF INSPECTION,

    C. THE WORKING CONDITION OF THE DEVICE DURING THE INSPECTION,

    D. ANY MAINTENANCE ACTIVITIES PERFORMED ON THE PACKED BED SCRUBBER

    E. ANY ACTIONS TAKEN TO CORRECT DEFICIENCIES FOUND DURING THE INSPECTION.

    F. THE DATES OF CALIBRATIONS OF THE PH MEASURING DEVICE.

    G. AN ITEMIZED LIST OF ALL CHEMICALS USED IN THE SCRUBBER.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

H. MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL CHEMICALS USED IN THE SCRUBBER.
[RULE 1303(a)(1)-BACT, 1401]

13. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.
[RULE 1303(a)(1)-BACT, 1401]

**Periodic Monitoring:**

14. THE OPERATOR SHALL DETERMINE AND RECORD THE FLOW RATE OF THE SCRUBBING SOLUTION ONCE EVERY DAY.
[RULE 3004 (a)(4)]

**Emissions and Requirements:**

15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 1155
PM: 0 PERCENT OPACITY, RULE 1155

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F43880**
**A/N 375668**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. MESH PAD MIST ELIMINATOR, 2'-0" W. X 2'-0" L. X 0'-1" THICK.

2. TWO PRE-FILTERS, AND TWO HEPA FILTERS, MICROGUARD 2000, MODEL NO. MC2000-601, EACH 2'-0" W. X 2'-0" L. X 0'-11 ½" THICK.

3. ONE HEPA FILTER, MICROGUARD 2000, MODEL NO. MC2000-601, 2'-0" W. X 2'-0" L. X 0'-11 ½" THICK.

4. EXHAUST SYSTEM, WITH A 0.5 H.P. FAN VENTING A CHROMIC ACID ANODIZING TANK.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE IN FULL USE WHENEVER THE CHROMIC ACID ANODIZING TANK VENTED TO IT IS IN OPERATION.
[RULE 1303(a)(1)-BACT, 1401, 1469]

4. DURING THE OPERATION OF THE CHROMIC ACID TANK, THE HEXAVALENT CHROMIUM EMISSIONS DISCHARGED TO THE ATMOSPHERE SHALL NOT EXCEED 0.0015 MILLIGRAM PER AMPERE-HOUR.
[RULE 1469]

5. A MECHANICAL GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE MESH PAD OF THE MESH PAD MIST ELIMINATOR. THE SCALE ON THE GAUGE SHALL NOT EXCEED 4 INCHES OF WATER COLUMN.
[RULE 1303(a)(1)-BACT, 1401, 1469]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

6. THE TOTAL STATIC PRESSURE DIFFERENTIAL ACROSS THE MESH PAD MIST ELIMINATOR SHALL REMAIN BETWEEN 0.1 AND 1.0 INCHES OF WATER COLUMN DURING OPERATION. [RULE 1303(a)(1)-BACT, 1401, 1469]

7. MECHANICAL GAUGES SHALL BE INSTALLED AND MAINTAINED SO AS TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. THE SCALE SHALL NOT EXCEED FOUR TIMES THE LIMIT SPECIFIED IN CONDITION NO. 8. [RULE 1303(a)(1)-BACT, 1401, 1469]

8. THE TOTAL STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS SHALL REMAIN WITHIN 0.2 TO 0.8 INCH OF WATER COLUMN DURING OPERATION. [RULE 1303(a)(1)-BACT, 1401, 1469]

9. THE MECHANICAL GAUGES SHALL BE LOCATED SO THAT THEY CAN BE EASILY VIEWED AND ARE IN CLEAR SIGHT OF THE OPERATION OR MAINTENANCE PERSONNEL. [RULE 1401, 1469]

10. A WEEKLY RECORD SHALL BE KEPT AND MAINTAINED ON SITE OF THE TOTAL STATIC PRESSURE DIFFERENTIAL, IN INCHES OF WATER COLUMN, ACROSS THE MESH PAD MIST ELIMINATOR AND THE HEPA FILTERS. [RULE 1303(a)(1)-BACT, 1401, 1469]

11. THE OWNER/OPERATOR SHALL PREPARE AN OPERATION AND MAINTENANCE (O & M) PLAN. THE O & M PLAN SHALL INCORPORATE THE INSPECTION AND MAINTENANCE REQUIREMENTS AS IDENTIFIED IN TABLE 1 OF RULE 1469, AND SHALL INCLUDE THE FOLLOWING ELEMENTS:

    A. A STANDARDIZED CHECKLIST TO DOCUMENT THE OPERATION AND MAINTENANCE OF THE TANKS VENTED TO THE AIR POLLUTION CONTROL SYSTEM , THE AIR POLLUTION CONTROL SYSTEM, AND THE PROCESS AND CONTROL SYSTEM MONITORING EQUIPMENT, AND

    B. THE PROCEDURE TO BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS PROPERLY MAINTAINED. THE OWNER/OPERATOR MAY USE APPLICABLE STANDARD OPERATING PROCEDURE (SOP) MANUALS, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) PLANS, OR OTHER EXISTING PLANS, PROVIDED THE ALTERNATIVE PLANS MEET THE REQUIREMENTS OF RULE 1469.

    [RULE 1469]

12. THE SPECIFIC OPERATION AND MAINTENANCE ACTIVITIES IDENTIFIED IN THE O & M PLAN SHALL BE INSTITUTED IF THE TOTAL STATIC PRESSURE DIFFERENTIALS ACROSS THE AIR POLLUTION CONTROL SYSTEM STAGES REGARDING THE MESH PAD, THE PREFILTERS, AND THE HEPA FILTERS EXCEED THE LIMITS STATED IN THE ABOVE CONDITIONS. [RULE 1469]

13. THE OWNER/OPERATOR SHALL KEEP THE WRITTEN O & M PLAN ON RECORD AFTER IT IS DEVELOPED, TO BE MADE AVAILABLE FOR INSPECTION UPON DISTRICT REQUEST. [RULE 1469]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

14. ANY CHANGES MADE TO THE O & M PLAN SHALL BE DOCUMENTED IN AN ADDENDUM TO THE PLAN AND SIGNED BY THE OWNER/OPERATOR OR APPROPRIATE DESIGNEE. THE OWNER/OPERATOR SHALL KEEP THE PREVIOUS VERSIONS OF THE O & M PLAN ON RECORD TO BE MADE AVAILABLE TO THE DISTRICT UPON REQUEST, FOR A PERIOD OF 5 YEARS AFTER EACH REVISION TO THE PLAN.
[RULE 1469]

15. THE OWNER/OPERATOR SHALL ANNUALLY COMPLETE, BY FEBRUARY 1, AN ONGOING COMPLIANCE STATUS REPORT FOR THE PRECEDING CALENDAR YEAR. THE REPORT SHALL CONTAIN THE INFORMATION IDENTIFIED IN APPENDIX 3 OF RULE 1469. THE REPORT SHALL BE MADE AVAILABLE TO THE DISTRICT UPON REQUEST.
[RULE 1469]

16. THE OWNER/OPERATOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR THE COMPOSITE MESH PAD SYSTEM LISTED BELOW:

    A. QUARTERLY VISUAL INSPECTION OF THE DEVICE TO ENSURE THERE IS PROPER DRAINAGE, NO UNUSUAL CHROMIC ACID BUILDUP ON THE MESH PAD, AND NO EVIDENCE OF CHEMICAL ATTACK THAT AFFECTS THE STRUCTURAL INTEGRITY OF THE DEVICE.

    B. QUARTERLY VISUAL INSPECTION OF THE BACK PORTION OF THE MESH PAD SYSTEM CLOSEST TO THE FAN TO ENSURE THERE IS NO BREAKTHROUGH OF CHROMIC ACID MIST.

    C. QUARTERLY VISUAL INSPECTION OF THE DUCTWORK FROM THE CHROMIC ACID TANK TO THE CONTROL DEVICE TO ENSURE THERE ARE NO LEAKS.

    D. PERFORM WASHDOWN OF THE COMPOSITE MESH PAD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

    [RULE 1469]

17. THE OWNER/OPERATOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR THE HEPA FILTER SYSTEM LISTED BELOW:

    A. WEEKLY INSPECTION FOR CHANGES IN PRESSURE DROP.

    B. REPLACE THE MESH PAD, PREFILTERS AND HEPA FILTERS WHEN THEY HAVE EXCEEDED THE SPECIFIED STATIC PRESSURE DIFFERENTIAL LIMITS.

    [RULE 1469]

18. THE OWNER/OPERATOR SHALL MAINTAIN INSPECTION AND MAINTENANCE RECORDS FOR THE COMPOSITE MESH PAD MIST ELIMINATOR, HEPA FILTER SYSTEM, AND MONITORING EQUIPMENT TO DOCUMENT COMPLIANCE WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS OF THIS PERMIT. THE RECORDS SHALL IDENTIFY:

    A. THE DEVICE INSPECTED,

    B. THE DATE AND TIME OF INSPECTION,

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

C. THE WORKING CONDITION OF THE DEVICE DURING THE INSPECTION,

D. ANY MAINTENANCE ACTIVITIES PERFORMED ON THE MESH PAD MIST ELIMINATOR, THE HEPA FILTER SYSTEM, AND

E. ANY ACTIONS TAKEN TO CORRECT DEFICIENCIES FOUND DURING THE INSPECTION.
[RULE 1469]

19. THE OWNER/OPERATOR SHALL MAINTAIN RECORDS OF EXCESS EMISSIONS INCLUDING, BUT NOT LIMITED TO, RECORDS OF ANY EXCEEDANCES OF THE EMISSION LIMITATION AND/OR MONITORING PARAMETERS REQUIREMENTS STATED IN THIS PERMIT. THE RECORDS SHALL INCLUDE THE DATE OF THE OCCURRENCE, THE DURATION, CAUSE (IF KNOWN), AND, WHERE POSSIBLE, THE MAGNITUDE OF ANY EXCESS EMISSIONS.
[RULE 1469]

20. THE OWNER/OPERATOR SHALL REPORT EQUIPMENT BREAKDOWNS AS REQUIRED BY THE DISTRICT RULE 430.
[RULE 1469, 430]

21. AFTER THE EFFECTIVE DATE OF RULE 1469, NO PERSON MAY CONSTRUCT OR MODIFY A SOURCE SUCH THAT IT BECOMES A SOURCE SUBJECT TO RULE 1469 WITHOUT SUBMITTING A NOTIFICATION OF CONSTRUCTION OR MODIFICATION TO THE DISTRICT AND RECEIVING APPROVAL IN ADVANCE TO CONSTRUCT OR MODIFY THE SOURCE. THE CONTENTS OF THE NOTIFICATION OF CONSTRUCTION OR MODIFICATION SHALL INCLUDE INFORMATION AS LISTED IN APPENDIX 4 OF RULE 1469.
[RULE 1469]

22. THE OWNER/OPERATOR SHALL COMPLY WITH THE APPLICABLE INSPECTION AND MAINTENANCE REQUIREMENTS LISTED IN TABLE 1 OF RULE 1469.
[RULE 1469]

23. THE OWNER/OPERATOR SHALL MAINTAIN MONITORING DATA RECORDS THAT ARE USED TO DEMONSTRATE COMPLIANCE WITH THE MONITORING PARAMETERS REQUIREMENTS IDENTIFIED IN THIS PERMIT, INCLUDING THE DATE AND TIME OF THE DATA COLLECTED.
[RULE 1469]

24. THE RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS (WITH THE LAST TWO YEARS ON SITE) AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.
[RULE 1401, 1469]

**Emissions And Requirements:**

25. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
$CR^{+6}$: 0.0015MG/AMP-HR, RULE 1469
PM: RULE 1155
PM: 0 PERCENT OPACITY, RULE 1155

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F47662**
**A/N 376829**

**Equipment Description:**

SPRAY BOOTH P2-B1, BINKS, FLOOR TYPE, 14'-0" W. X 12'-0" H. X 8'-0" L., WITH TWENTY 20" X 20" X 1" PRIMARY FILTERS, TWENTY 20" X 20" X 1" PRE-FILTERS, TWENTY 20" X 20" X 10.5" BAG-TYPE FILTERS, EIGHT 24" X 24" X 11.5" AIRGUARD HEPA FILTERS (#NC2000-500), AND ONE 3 H.P. EXHAUST FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AS DESCRIBED ON THIS PERMIT.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS SPRAY BOOTH SHALL NOT EXCEED 25 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

7. THE TOTAL QUANTITY OF CHROMIUM THAT IS CONTAINED IN COATINGS SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 4.2 POUNDS PER YEAR.
[RULE 1401]

8. COATINGS AND SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM), WITH A DATE OF LISTING OF AUGUST 18, 2000, OR EARLIER.
[RULE 1401]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

9 THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP (OR EQUIVALENT) TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.97%.
[RULE 1303(a)(1)-BACT, 1469.1]

10. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS), AND THE CHROMIUM SPRAYED IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET, 1401]

**Periodic Monitoring:**

11. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

    A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
    B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
    C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
    [RULE 3004(a)(4)]

12. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

**Emissions and Requirements:**

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

    VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
    VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
    VOC: RULE 109
    PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
    PM: RULE 481
    $CR^{+6}$: RULE 1469.1

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F47663**
**A/N 376830**

**Equipment Description:**

SPRAY BOOTH P2-B4 (BOOTH 4), DEVILBISS, FLOOR TYPE, 20'-0" W. X 13'-6" L. X 10'-6" H., WITH ONE 20' X 10'-6" X 1" PRIMARY BLANKET-TYPE FILTER, ONE 20' X 10'-6" X 1" BLANKET-TYPE PRE-FILTER, FIFTY-FIVE 20" X 20" X 10.5" BAG-TYPE FILTERS, TWENTY-FOUR 24" X 24" X 11.5" AIRGUARD HEPA FILTERS (#NC2000-500), AND TWO 3 H.P. EXHAUST FANS.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AS DESCRIBED ON THIS PERMIT.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS SPRAY BOOTH SHALL NOT EXCEED 32 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

7 THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP (OR EQUIVALENT) TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.97%.
[RULE 1303(a)(1)-BACT, 1469.1]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

8. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS), AND THE CHROMIUM SPRAYED IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET]

**Periodic Monitoring:**

9. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
   B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
   C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
   [RULE 3004(a)(4)]

10. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

**Emissions and Requirements:**

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 109
   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
   PM: RULE 481
   $CR^{+6}$: RULE 1469.1

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F47664**
**A/N 376831**

**Equipment Description:**

SPRAY BOOTH P3-B6 (BOOTH 6), BLEEKER, FLOOR TYPE, MODEL F-12-7, 12'-0" W. X 11'-0" H. X 7'-0" L., WITH ONE 144" X 84" X 1" PRIMARY ROLL FILTER, TWENTY 20" X 20" X 1" PRE-FILTERS, TWENTY 20" X 20" X 10.5" POCKET-TYPE FILTERS, EIGHT 24" X 24" X 11.5" AIRGUARD HEPA FILTERS (#NC2000-500), AND ONE 3 H.P. EXHAUST FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AS DESCRIBED ON THIS PERMIT.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS SPRAY BOOTH SHALL NOT EXCEED 24 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT]

7 THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP (OR EQUIVALENT) TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.97%.
[RULE 1303(a)(1)-BACT, 1469.1]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

8. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS), AND THE CHROMIUM SPRAYED IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET]

**Periodic Monitoring:**

9. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
   B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
   C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
   [RULE 3004(a)(4)]

10. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

**Emissions and Requirements:**

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

    VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
    VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
    VOC: RULE 109
    PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
    PM: RULE 481
    $CR^{+6}$: RULE 1469.1

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F47665**
**A/N 376832**

**Equipment Description:**

SPRAY BOOTH P3-B7 (BOOTH 7), BINKS, FLOOR TYPE, MODEL PFF8-7-T, 7'-8" W. X 7'-0" H. X 8'-8" L., WITH SIXTEEN 20" X 20" X 1" PRIMARY FILTERS, SIXTEEN 20" X 20" X 1" PRE-FILTERS, SIXTEEN 20" X 20" X 10.5" POCKET-TYPE FILTERS, EIGHT 24" X 24" X 11.5" AIRGUARD HEPA FILTERS (#NC2000-500), AND ONE 3 H.P. EXHAUST FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AS DESCRIBED ON THIS PERMIT.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS SPRAY BOOTH SHALL NOT EXCEED 28 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT]

7 THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP (OR EQUIVALENT) TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.97%.
[RULE 1303(a)(1)-BACT, 1469.1]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

8. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS), AND THE CHROMIUM SPRAYED IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET]

**Periodic Monitoring:**

9. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
   B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
   C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
   [RULE 3004(a)(4)]

10. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

**Emissions and Requirements:**

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

    VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
    VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
    VOC: RULE 109
    PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
    PM: RULE 481
    $CR^{+6}$: RULE 1469.1

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F54510**
**A/N 377774**

**Equipment Description:**

ABRASIVE BLASTING SYSTEM CONSISTING OF:

1. CABINET, MODEL NO. 27F3-1, 3'-0" W. X 3'-0" L. X 3'-0" H.

2. BLASTING POT, 30 POUNDS CAPACITY

3. ONE NOZZLE WITH A MAXIMUM INSIDE DIAMETER OF 1/4" AND A MAXIMUM AIR PRESSURE OF 60 PSIA.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING CABINET TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT]

4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR THAT IS IN FULL USE.
[RULE 1303(a)(1)-BACT]

5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING CABINET WHEN THE DUST COLLECTOR IS NOT OPERATING.
[RULE 1303(a)(1)-BACT]

6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS SHOWN IN RULE 1401 TABLE 1, AS AMENDED ON AUGUST 18, 2000.
[RULE 1401]

7. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT]

**Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

   IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

   A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
   B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL “VISIBLE EMISSION EVALUATION”, WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

   THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

   A. STACK OR EMISSION POINT IDENTIFICATION;
   B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
   C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
   D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

   [RULE 3004 (a)(4)]

**Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
   PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F54508**
**A/N 377775**

**Equipment Description:**

ABRASIVE BLASTING SYSTEM CONSISTING OF:

1. ABRASIVE BLASTING ROOM, WALK-IN, MODEL NO. 7X18.6X7, 7'-6" W. X 18'-6" L. X 7'-0" H.

2. BLASTING POT, 1,543 POUNDS CAPACITY.

3. ONE NOZZLE WITH A MAXIMUM INSIDE DIAMETER OF 1/2" AND A MAXIMUM AIR PRESSURE OF 60 PSIA.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING ROOM TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT]

4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR THAT IS IN FULL USE.
[RULE 1303(a)(1)-BACT]

5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING EQUIPMENT WHEN THE DUST COLLECTOR IS NOT OPERATING.
[RULE 1303(a)(1)-BACT]

6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS SHOWN IN RULE 1401 TABLE 1, AS AMENDED ON AUGUST 18, 2000.
[RULE 1401]

7. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT]

**Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

   IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

   A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
   B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL “VISIBLE EMISSION EVALUATION”, WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

   THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

   A. STACK OR EMISSION POINT IDENTIFICATION;
   B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
   C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
   D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

   [RULE 3004 (a)(4)]

**Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
   PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F54511**
**A/N 377777**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BAGHOUSE, UNITED AIR SPECIALISTS, MODEL NO. FFBW-DC-U, SERIAL NO. 44-1325, WITH 6 BAGS, EACH 1'-1¾" DIA. X 1'-6" L., WITH TOTAL FILTER AREA OF 1,650 SQ. FT. AND A PULSE JET CLEANING SYSTEM.

2. EXHAUST SYSTEM WITH A 5-H.P. BLOWER VENTING TWO ABRASIVE BLASTING CABINETS AND ONE WALK-IN ABRASIVE BLASTING ROOM.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE DUST COLLECTOR TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT]

4. THIS DUST COLLECTOR SHALL BE IN FULL USE WHENEVER THE EQUIPMENT THAT IT IS VENTING IS IN OPERATION.
[RULE 1303(a)(1)-BACT]

5. A MECHANICAL GAUGE SHALL BE MAINTAINED SO AS TO INDICATE, IN INCHES WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.
[RULE 1303(a)(1)-BACT]

6. DUST COLLECTED IN THIS EQUIPMENT SHALL BE DISPOSED INTO ENCLOSED CONTAINERS.
[RULE 1303(a)(1)-BACT]

**Periodic Monitoring:**

7. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE BAGS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

8. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
   B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
   C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
   [RULE 3004 (a)(4)]

9. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A QUARTERLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE QUARTERLY PERIOD. THE ROUTINE QUARTERLY INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.

   THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

   A. STACK OR EMISSION POINT IDENTIFICATION;
   B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND
   C. DATE AND TIME VISIBLE EMISSION WAS ABATED.

   [RULE 3004 (a)(4)]

**Emissions And Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

    PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
    PM: RULE 1155
    PM: 0 PERCENT OPACITY, RULE 1155

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F54509**
**A/N 380559**

**Equipment Description:**

ABRASIVE BLASTING SYSTEM CONSISTING OF:

1. CABINET, MODEL NO. 27F3-4, 3'-0" W. X 3'-0" L. X 3'-0" H.

2. BLASTING POT, 30 POUNDS CAPACITY

3. ONE NOZZLE WITH A MAXIMUM INSIDE DIAMETER OF 1/4" AND A MAXIMUM AIR PRESSURE OF 60 PSIA.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING CABINET TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT]

4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR THAT IS IN FULL USE.
[RULE 1303(a)(1)-BACT]

5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING CABINET WHEN THE DUST COLLECTOR IS NOT OPERATING.
[RULE 1303(a)(1)-BACT]

6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS SHOWN IN RULE 1401 TABLE 1, AS AMENDED ON AUGUST 18, 2000.
[RULE 1401]

7 ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, 1401]

**Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

   IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

   A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
   B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL “VISIBLE EMISSION EVALUATION”, WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

   THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

   A. STACK OR EMISSION POINT IDENTIFICATION;
   B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
   C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
   D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

   [RULE 3004 (a)(4)]

**Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
   PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G6855**
**A/N 380560**

**Equipment Description:**

ABRASIVE BLASTING SYSTEM, NO. 2, CONSISTING OF:

1. CABINET, MODEL NO. 27F3-3, 3'-0" W. X 3'-0" L. X 3'-0" H.

2. ONE NOZZLE WITH MAXIMUM INTERNAL DIAMETER OF 1/4 INCH.

3. PLANT AIR WITH MAXIMUM PRESSURE AT 60 PSIG.

4. BLASTING POT, 30 POUNDS CAPACITY.

5. VENTED TO A DUST COLLECTOR AND A HEPA FILTER UNIT.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING CABINET TO SHOW ABRASIVE BLASTING SYSTEM NO. AND MANUFACTURER MODEL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT]

4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR AND A THREE STAGE FILTER SYSTEM WITH HEPA FILTERS THAT IS IN FULL USE AND HAS A VALID DISTRICT OPERATING PERMIT.
[RULE 1303(a)(1)-BACT]

5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING CABINET WHEN THE AIR POLLUTION CONTROL SYSTEM IS NOT OPERATING.
[RULE 1303(a)(1)-BACT]

6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401 TABLE 1, WITH AN EFFECTIVE DATE OF AUGUST 18,

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

2000 OR EARLIER WITH THE EXCEPTION OF CHROMIUM AND CHROMIUM COMPOUNDS.
[RULE 1401]

7. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, 1401]

**Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

   IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

   A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
   B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL “VISIBLE EMISSION EVALUATION”, WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

   THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

   A. STACK OR EMISSION POINT IDENTIFICATION;
   B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
   C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
   D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

   [RULE 3004 (a)(4)]

**Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
   PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G6857**
**A/N 380563**

**Equipment Description:**

ABRASIVE BLASTING SYSTEM, NO. 3, CONSISTING OF:

1. CABINET, MODEL NO. 27F3-3, 3'-0" W. X 3'-0" L. X 3'-0" H.

2. ONE NOZZLE WITH MAXIMUM INTERNAL DIAMETER OF 1/4 INCH.

3. PLANT AIR WITH MAXIMUM PRESSURE AT 60 PSIG.

4. BLASTING POT, 30 POUNDS CAPACITY.

5. VENTED TO A DUST COLLECTOR AND A HEPA FILTER UNIT.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING CABINET TO SHOW ABRASIVE BLASTING SYSTEM NO. AND MANUFACTURER MODEL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT]

4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR AND A THREE STAGE FILTER SYSTEM WITH HEPA FILTERS THAT IS IN FULL USE AND HAS A VALID DISTRICT OPERATING PERMIT.
[RULE 1303(a)(1)-BACT]

5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING CABINET WHEN THE AIR POLLUTION CONTROL SYSTEM IS NOT OPERATING.
[RULE 1303(a)(1)-BACT]

6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401 TABLE 1, WITH AN EFFECTIVE DATE OF AUGUST 18,

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

2000 OR EARLIER WITH THE EXCEPTION OF CHROMIUM AND CHROMIUM COMPOUNDS.
[RULE 1401]

7. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, 1401]

**Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

   IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

   A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
   B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL “VISIBLE EMISSION EVALUATION”, WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

   THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

   A. STACK OR EMISSION POINT IDENTIFICATION;
   B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
   C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
   D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

   [RULE 3004 (a)(4)]

**Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
   PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G6859**
**A/N 380564**

**Equipment Description:**

ABRASIVE BLASTING SYSTEM, WALK-IN NO. 2, CONSISTING OF:

1. ROOM, MODEL NO. 7 X 18.6 X 7, 7'-6" W. X 18'-6" L. X 7'-0" H.

2. ONE NOZZLE WITH MAXIMUM INTERNAL DIAMETER OF 1/2 INCH.

3. PLANT AIR WITH MAXIMUM PRESSURE AT 60 PSIG.

4. BLASTING POT, 1,543 POUNDS CAPACITY.

5. VENTED TO A DUST COLLECTOR AND A HEPA FILTER UNIT.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING CABINET TO SHOW ABRASIVE BLASTING SYSTEM NO. AND MANUFACTURER MODEL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT]

4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR AND A THREE STAGE FILTER SYSTEM WITH HEPA FILTERS THAT IS IN FULL USE AND HAS A VALID DISTRICT OPERATING PERMIT.
[RULE 1303(a)(1)-BACT]

5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING ROOM WHEN THE AIR POLLUTION CONTROL SYSTEM IS NOT OPERATING.
[RULE 1303(a)(1)-BACT]

6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401 TABLE 1, WITH AN EFFECTIVE DATE OF AUGUST 18,

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

2000 OR EARLIER WITH THE EXCEPTION OF CHROMIUM AND CHROMIUM COMPOUNDS.
[RULE 1401]

7. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, 1401]

**Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

   IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

   A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
   B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL “VISIBLE EMISSION EVALUATION”, WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

   THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

   A. STACK OR EMISSION POINT IDENTIFICATION;
   B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
   C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
   D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

   [RULE 3004 (a)(4)]

**Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
   PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G6860**
**A/N 380565**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM NO. 2 CONSISTING OF:

1. DUST COLLECTOR, DUST-HOG, MODEL NO. FFBW-DC-U, WITH SIX CARTRIDGES, EACH 13.84" DIA. X 26" H., 1650 SQ. FT. TOTAL SURFACE AREA AND A PULSE JET CLEANING SYSTEM.

2. PRE-FILTER UNIT, 5' W. X 5' H. X 7'-6" L, CONSISTING OF NINE 20" X 20"X 1" PRE-FILTERS (STAGE 1) AND NINE 20" X 20" X 12" BAG-FILTERS (STAGE 2)

3. HEPA FILTER UNIT, CONSISTING OF EIGHT 24" X 24"X 11.5" ULPA FILTERS (STAGE 3)

4. EXHAUST SYSTEM WITH A 3 H.P. MOTOR VENTING TWO ABRASIVE BLASTING CABINETS AND WALK-IN ABRASIVE BLASTING ROOM.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE DUST COLLECTOR TO SHOW AIR POLLUTION CONTROL SYSTEM NO. AND MANUFACTURER MODEL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 1303(a)(1)-BACT]

4. THIS DUST COLLECTOR AND THE THREE STAGE FILTER SYSTEM SHALL BE IN FULL USE WHENEVER THE EQUIPMENT THAT IT IS VENTING IS IN OPERATION.
[RULE 1303(a)(1)-BACT]

5. A MECHANICAL GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRE-FILTERS AND BAG FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.25 INCH OF WATER AND SHALL NOT BE LOWER THAN 0.1 INCH OF WATER.
[RULE 1303(a)(1)-BACT]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

6. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 3.75 INCH OF WATER AND SHALL NOT BE LOWER THAN 1.15 INCH OF WATER.
[RULE 1303(a)(1)-BACT]

7. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY TESTED AND CERTIFIED BY THE MANUFACTURER TO HAVE A MINIMUM EFFICIENCY OF 99.999 PERCENT FOR 0.3 MICRON PARTICLES, BASED ON DOP TESTING OR OTHER DISTRICT APPROVED TEST METHOD.
[RULE 1303(a)(1)-BACT]

8. DUST COLLECTED IN THIS EQUIPMENT SHALL BE DISPOSED INTO ENCLOSED CONTAINERS.
[RULE 1303(a)(1)-BACT]

**Periodic Monitoring:**

9. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTERS ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

10. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

    A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
    B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
    C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
    [RULE 3004 (a)(4)]

11. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A QUARTERLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE QUARTERLY PERIOD. THE ROUTINE QUARTERLY INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.

    THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

    A. STACK OR EMISSION POINT IDENTIFICATION;
    B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

C. DATE AND TIME VISIBLE EMISSION WAS ABATED.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 1155
PM: 0 PERCENT OPACITY, RULE 1155

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F64040**
**A/N 418872**

**Equipment Description:**

SPRAY BOOTH P1-B2, BLEEKER BROS., MODEL 53304(1812), FLOOR TYPE, 18'-0" W. X 12'-0" L. X 7'-10" H., WITH ONE BLANKET FILTER, 18'-0" L. X 8'-0" H. X 1" THICK, FORTY 20" X 20" PRE-FILTERS, FORTY 20" W. X 20" L. X 10.5" D. BAG-TYPE FILTERS, TWENTY FOUR 24" X 24" X 11.5" HEPA FILTERS, AND ONE 5 HP EXHAUST FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH THE THREE STAGE FILTER MEDIA. WHEN COATINGS THAT CONTAIN CHROMIUM COMPOUNDS ARE SPRAYED, ALL EXHAUST AIR SHALL PASS THROUGH HEPA-RATED FILTERS.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM SPRAY BOOTHS P1-B2, P1-B3, AND P1-B4 SHALL NOT EXCEED 39 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

7. THE TOTAL QUANTITY OF HEXAVALENT CHROMIUM THAT IS CONTAINED IN COATINGS SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 558 POUNDS PER YEAR. TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION, THE OPERATOR SHALL DETERMINE THE AMOUNT OF HEXAVALENT CHROMIUM AS FOLLOWS:
   (COATING USAGE) X (COATING DENSITY) X (WEIGHT PERCENT OF CHROMIUM COMPOUNDS) X (RATIO OF HEXAVALENT CHROMIUM MOLECULAR WEIGHT TO CHROMIUM COMPOUND MOLECULAR WEIGHT)
   [RULE 1401]

8. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.999%.
   [RULE 1401]

9. COATINGS AND SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM AND CHROMIUM COMPOUNDS), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.
   [RULE 1401]

10. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THE SPRAY BOOTHS DESIGNATED AS P1-B2, P1-B3, AND P1-B4, TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
    [RULE 109, 1303(b)(2)-OFFSET]

11. THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR EACH COATING THAT CONTAINS CHROMIUM COMPOUNDS TO VERIFY THE DAILY USAGE IN GALLONS, THE DENSITY OF THE COATING IN POUNDS PER GALLON, THE WEIGHT PERCENT OF CHROMIUM COMPOUNDS, AND THE MOLECULAR WEIGHT OF THE CHROMIUM COMPOUND. THESE RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
    [RULE 109, 1401]

**Periodic Monitoring:**

12. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

    A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
    B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
    C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

[RULE 3004(a)(4)]

13. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

**Emissions and Requirements:**

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 109
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 481
$CR^{+6}$: RULE 1469.1

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F64044**
**A/N 419000**

**Equipment Description:**

SPRAY BOOTH P1-B4, BLEEKER BROS., MODEL 53304(1812), FLOOR TYPE, 18'-0" W. X 12'-0" L. X 7'-10" H., WITH ONE BLANKET FILTER, 18'-0" L. X 8'-0" H. X 1" THICK, FORTY 20" X 20" PRE-FILTERS, FORTY 20" W. X 20" L. X 10.5" D. BAG-TYPE FILTERS, TWENTY FOUR 24" X 24" X 11.5" HEPA FILTERS, AND ONE 5 HP EXHAUST FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH THE THREE STAGE FILTER MEDIA. WHEN COATINGS THAT CONTAIN CHROMIUM COMPOUNDS ARE SPRAYED, ALL EXHAUST AIR SHALL PASS THROUGH HEPA-RATED FILTERS.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM SPRAY BOOTHS P1-B2, P1-B3, AND P1-B4 SHALL NOT EXCEED 39 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

7. THE TOTAL QUANTITY OF HEXAVALENT CHROMIUM THAT IS CONTAINED IN COATINGS SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 558 POUNDS PER YEAR. TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION, THE OPERATOR SHALL DETERMINE THE AMOUNT OF HEXAVALENT CHROMIUM AS FOLLOWS:
   (COATING USAGE) X (COATING DENSITY) X (WEIGHT PERCENT OF CHROMIUM COMPOUNDS) X (RATIO OF HEXAVALENT CHROMIUM MOLECULAR WEIGHT TO CHROMIUM COMPOUND MOLECULAR WEIGHT)
   [RULE 1401]

8. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.999%.
   [RULE 1401]

9. COATINGS AND SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM AND CHROMIUM COMPOUNDS), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.
   [RULE 1401]

10. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THE SPRAY BOOTHS DESIGNATED AS P1-B2, P1-B3, AND P1-B4, TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
    [RULE 109, 1303(b)(2)-OFFSET]

11. THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR EACH COATING THAT CONTAINS CHROMIUM COMPOUNDS TO VERIFY THE DAILY USAGE IN GALLONS, THE DENSITY OF THE COATING IN POUNDS PER GALLON, THE WEIGHT PERCENT OF CHROMIUM COMPOUNDS, AND THE MOLECULAR WEIGHT OF THE CHROMIUM COMPOUND. THESE RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
    [RULES 109, 1401]

**Periodic Monitoring:**

12. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

    A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
    B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
    C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

[RULE 3004(a)(4)]

13. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

**Emissions and Requirements:**

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 109
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 481
$CR^{+6}$: RULE 1469.1

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. F64046**
**A/N 419001**

**Equipment Description:**

SPRAY BOOTH P1-B3, BLEEKER BROS., MODEL 53304(1812), FLOOR TYPE, 18'-0" W. X 12'-0" L. X 7'-10" H., WITH ONE BLANKET FILTER, 18'-0" L. X 8'-0" H. X 1" THICK, FORTY 20" X 20" PRE-FILTERS, FORTY 20" W. X 20" L. X 10.5" D. BAG-TYPE FILTERS, TWENTY FOUR 24" X 24" X 11.5" HEPA FILTERS, AND ONE 5 HP EXHAUST FAN.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH THE THREE STAGE FILTER MEDIA. WHEN COATINGS THAT CONTAIN CHROMIUM COMPOUNDS ARE SPRAYED, ALL EXHAUST AIR SHALL PASS THROUGH HEPA-RATED FILTERS.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM SPRAY BOOTHS P1-B2, P1-B3, AND P1-B4 SHALL NOT EXCEED 39 POUNDS PER DAY.
[RULE 1303(a)(1)-BACT]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

7. THE TOTAL QUANTITY OF HEXAVALENT CHROMIUM THAT IS CONTAINED IN COATINGS SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 558 POUNDS PER YEAR. TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION, THE OPERATOR SHALL DETERMINE THE AMOUNT OF HEXAVALENT CHROMIUM AS FOLLOWS:
   (COATING USAGE) X (COATING DENSITY) X (WEIGHT PERCENT OF CHROMIUM COMPOUNDS) X (RATIO OF HEXAVALENT CHROMIUM MOLECULAR WEIGHT TO CHROMIUM COMPOUND MOLECULAR WEIGHT)
   [RULE 1401]

8. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.999%.
   [RULE 1401]

9. COATINGS AND SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM AND CHROMIUM COMPOUNDS), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.
   [RULE 1401]

10. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THE SPRAY BOOTHS DESIGNATED AS P1-B2, P1-B3, AND P1-B4, TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
    [RULE 109, 1303(b)(2)-OFFSET]

11. THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR EACH COATING THAT CONTAINS CHROMIUM COMPOUNDS TO VERIFY THE DAILY USAGE IN GALLONS, THE DENSITY OF THE COATING IN POUNDS PER GALLON, THE WEIGHT PERCENT OF CHROMIUM COMPOUNDS, AND THE MOLECULAR WEIGHT OF THE CHROMIUM COMPOUND. THESE RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
    [RULE 109, 1401]

**Periodic Monitoring:**

12. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

    A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
    B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
    C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

[RULE 3004(a)(4)]

13. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

**Emissions and Requirements:**

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 109
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 481
$CR^{+6}$: RULE 1469.1

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G6861**
**A/N 480175**

**Equipment Description:**

SULFURIC ACID ANODIZING LINE CONSISTING OF:

1. TANK NO. 2A, ALKALINE CLEANING, OAKITE 61B (SODIUM CARBONATE, TRISODIUM PHOSPHATE, SODIUM METASILICATE, PHOSPHATES), STEAM HEATED.
2. TANK NO. 16B, ALKALINE ETCHING, OAKITE 160 (SODIUM HYDROXIDE, SODIUM CARBONATE) STEAM HEATED.
3. TANK NO. 4A, DEOXIDIZING, OAKITE LNC (NITRIC ACID, FERRIC SULFATE), STEAM HEATED.
4. TANK NO. 17, RINSING, SODIUM BICARBONATE, STEAM HEATED, WITH AIR SPARGING.
5. TANK NO. 7A, ANODIZING, SULFURIC ACID, BORIC ACID, RECTIFIED, STEAM HEATED.
6. TANK NO. 7, ANODIZING, SULFURIC ACID, RECTIFIED, STEAM HEATED.
7. TANK NO. 15A, CHEM FILM, ALODINE 1500 (CHROMIC ACID, AMMONIUM HEXAFLUOROZIRCONATE), HEATED.
8. TANK NO. 15, CHEM FILM, IRRIDITE 14-2 (CHROMIUM TRIOXIDE, SODIUM SILICOFLUORIDE, FERRICYANIDE, BARIUM NITRATE), STEAM HEATED.
9. TANK NO. 11C, SEALING, SODIUM DICHROMATE, STEAM HEATED.
10. TANK NO. 11A, SEALING, DILUTE SODIUM CHROMATE, CHROMIC ACID, STEAM HEATED.
11. TANK NO. C5, ETCHING, HYDROFLUORIC ACID, NITRIC ACID, STEAM HEATED.
12. TANK NO. C3, DESMUT, NITRIC ACID, STEAM HEATED.
13. ASSOCIATED RINSE TANKS.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. ALL TANKS SHALL BE CLEARLY IDENTIFIED AND LABELED WITH APPROPRIATE TANK NUMBERS AS DESIGNATED IN THE EQUIPMENT DESCRIPTION. THE IDENTIFICATION AND/OR LABELING OF EACH TANK SHALL BE DIRECTLY AFFIXED TO EACH TANK AND SHALL BE CLEARLY VISIBLE AND LEGIBLE.
[RULE 1303(b)(2)-OFFSET, 1401]

4. TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
[RULE 1303(b)(2)-OFFSET, 1401]

5. AIR SPARGING, RECTIFICATION, AND/OR HEATING SHALL NOT BE CONDUCTED EXCEPT IN TANKS WHERE THESE OPERATIONS ARE SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION. DISCONTINUATION OF SUCH OPERATIONS SHALL NOT CONSTITUTE A MODIFICATION FOR PERMITTING PURPOSES.
[RULE 1303(b)(2)-OFFSET, 1401]

6. WATER RINSE TANKS THAT CONTAIN CHROMATES, DICHROMATES, OR ANY OTHER COMPOUNDS CONTAINING HEXAVALENT CHROMIUM, SHALL NOT BE AIR SPARGED.
[RULE 1401]

7. THE PROCESS TANKS IN THIS LINE SHALL BE OPERATED AT OR BELOW THE PARAMETER LIMITS INDICATED IN THE FOLLOWING TABLE:

| TANK NO. | CHEMICAL | MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%) | MAXIMUM ANNUAL AMPERE-HOURS (CALENDAR YEAR) | MAXIMUM OPERATING TEMP. (DEGREES FAHRENHEIT) | MAXIMUM SURFACE AREA (SQUARE FEET PER TANK) |
|---|---|---|---|---|---|
| 2A | SODIUM CARBONATE | 2.3 | N/A | 145 | 48 |
| 2A | TRISODIUM PHOSPHATE | 1.25 | N/A | 145 | 48 |
| 2A | SODIUM METASILICATE | 1.25 | N/A | 145 | 48 |
| 2A | PHOSPHATES | 0.75 | N/A | 145 | 48 |
| 16B | SODIUM HYDROXIDE | 3.5 | N/A | 105 | 48 |
| 16B | SODIUM CARBONATE | 0.5 | N/A | 105 | 48 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

| TANK NO. | CHEMICAL | MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%) | MAXIMUM ANNUAL AMPERE-HOURS (CALENDAR YEAR) | MAXIMUM OPERATING TEMP. (DEGREES FAHRENHEIT) | MAXIMUM SURFACE AREA (SQUARE FEET PER TANK) |
|---|---|---|---|---|---|
| 4A | NITRIC ACID | 4.05 | N/A | 90 | 48 |
| 4A | FERRIC SULFATE | 10.2 | N/A | 90 | 48 |
| 17 | SODIUM BICARBONATE | 1.15 | N/A | 95 | 48 |
| 7A | SULFURIC ACID | 5.0 | 8,000,000 | 84 | 96 |
| 7A | BORIC ACID | 1.0 | 8,000,000 | 84 | 96 |
| 7 | SULFURIC ACID | 19.15 | 8,000,000 | 74 | 88 |
| 15A | ALODINE 1500 | 2.0 | N/A | 160 | 48 |
| 15 | IRRIDITE 14-2 | 5.0 | N/A | 90 | 48 |
| 11C | SODIUM DICHROMATE | 6.0 | N/A | 212 | 48 |
| 11A | SODIUM CHROMATE | 0.5 | N/A | 210 | 48 |
| 11A | CHROMIC ACID | 0.5 | N/A | 210 | 48 |
| C5 | NITRIC ACID | 36.25 | N/A | 90 | 4.5 |
| C5 | HYDROFLUORIC ACID | 10.0 | N/A | 90 | 4.5 |
| C3 | NITRIC ACID | 37.0 | N/A | 90 | 4.75 |

FOR THE PURPOSE OF THIS CONDITION, CONCENTRATION MEANS ANHYDROUS CONCENTRATION (NOT INCLUDING WATER OR WATER OF HYDRATION).
[RULE 1303(b)(2)-OFFSET, 1401, 401]

8. TANK NOS. 4A, C3 AND C5 SHALL BE COVERED, WHEN NOT IN USE.
[RULE 401, 1401]

9. TANKS CONTAINING NITRIC ACID AND HYDROFLUORIC ACID SHALL COMPLY WITH THE VISIBLE EMISSION STANDARDS OF RULE 401.
[RULE 401]

10. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT THOSE SPECIFICALLY LISTED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
[RULE 1401]

11. EACH PROCESS TANK LISTED BELOW SHALL BE EQUIPPED WITH A CONTINUOUS RECORDING, NON-RESETTABLE, AMPERE-HOUR METER THAT OPERATES ON THE ELECTRICAL LINES AND MEASURES THE AMOUNT OF ELECTRICAL CURRENT APPLIED TO THE TANK. A SEPARATE METER SHALL BE HARD-WIRED FOR EACH TANK. THE METERS SHALL BE MOUNTED IN A LOCATION SUCH THAT THEY ARE EASILY ACCESSIBLE FOR MAINTENANCE AND THE TOTALIZING DISPLAY IS EASILY READABLE. THE ABOVE CONDITION APPLIES TO THE FOLLOWING TANKS:

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

A. ANODIZING TANK NO. 7A
B. ANODIZING TANK NO. 7
[[RULE 1303(b)(2)-OFFSET, 1401]

12. A LOG CONCERNING THE OPERATION OF THIS EQUIPMENT SHALL BE KEPT ON FILE FOR A MINIMUM OF FIVE YEARS. THE PAST TWO YEARS' RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:

    A. THE RECORDS REQUIRED BY THE CONDITIONS IN THIS PERMIT.
    B. THE CONCENTRATION, IN PERCENT BY VOLUME, OF EACH CHEMICAL IN EACH TANK AS DETERMINED EACH MONTH FROM THE ESTIMATED OPERATING LOSSES AND REPLENISHMENT DURING PROCESS OPERATION. THE CONCENTRATION OF EACH CHEMICAL IN EACH TANK SHALL ALSO BE RECORDED IN THIS LOG EACH TIME THE TANK IS REPLACED.
    C. AT LEAST ONCE PER MONTH, THE TOTAL OF AMPERE-HOURS APPLIED TO EACH TANK WITH ANNUAL AMPERE-HOUR LIMITS SPECIFIED IN CONDITION NO. 7, AND THE CUMULATIVE TOTAL OF AMPERE-HOURS APPLIED TO EACH TANK TO DATE FOR THE CURRENT CALENDAR YEAR. THE TANK(S) SHALL BE EQUIPPED WITH A NON-RESETTABLE AMPERE-HOUR METERS THAT OPERATE ON THE ELECTRICAL POWER LINES CONNECTED TO EACH TANK. A SEPARATE METER SHALL BE HARD-WIRED FOR EACH RECTIFIER.
    [RULE 1303(B)(2)-OFFSET, 1401]

13. MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL THE MATERIALS USED AT THIS FACILITY AND SUBJECT TO DISTRICT RULES SHALL BE KEPT CURRENT AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET, 1401]

14. THE OWNER/OPERATOR SHALL INSPECT AND MAINTAIN THE AMPERE-HOUR METER(S) ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
[RULE 1303(b)(2)-OFFSET, 1401]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G6863**
**A/N 480191**

**Equipment Description:**

ALUMINUM ETCH LINE CONSISTING OF:

1. TANK NO. 2B, ALKALINE CLEAN TANK, D909, STEAM HEATED.

2. TANK NO. 16, ALUMINUM ETCH TANK, SODIUM HYDROXIDE, STEAM HEATED.

3. TANK NO. 4B, DEOXIDIZER TANK, NITRIC ACID, FERRIC SULFATE, STEAM HEATED.

4. ASSOCIATED RINSE TANKS.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. ALL TANKS SHALL BE CLEARLY IDENTIFIED AND LABELED WITH APPROPRIATE TANK NUMBERS AS DESIGNATED IN THE EQUIPMENT DESCRIPTION. THE IDENTIFICATION AND/OR LABELING OF EACH TANK SHALL BE DIRECTLY AFFIXED TO EACH TANK AND SHALL BE CLEARLY VISIBLE AND LEGIBLE.
[RULE 1303(b)(2)-OFFSET, 1401]

4. TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
[RULE 1303(b)(2)-OFFSET, 1401]

5. AIR SPARGING, RECTIFICATION, AND/OR HEATING SHALL NOT BE CONDUCTED EXCEPT IN TANKS WHERE THESE OPERATIONS ARE SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION. REMOVAL OF SUCH OPERATIONS SHALL NOT CONSTITUTE A MODIFICATION FOR PERMITTING PURPOSES.
[RULE 1303(b)(2)-OFFSET, 1401]

6. THE TANKS WITH NITRIC ACID SHALL BE KEPT COVERED WHEN NOT IN USE.
[RULE 1303(b)(2)-OFFSET, 1401]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

7. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, TABLE 1 WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR THE CHEMICALS LISTED IN CONDITION NO. 8.
[RULE 1401]

8. THE PROCESS TANKS IN THIS LINE SHALL BE OPERATED AT OR BELOW THE PARAMETER LIMITS INDICATED IN THE FOLLOWING TABLE:

| TANK NO. | CHEMICAL | MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%) | MAXIMUM OPERATING TEMP. IN DEGREES FAHRENHEIT | MAXIMUM SURFACE AREA (SQUARE FEET PER TANK) |
|---|---|---|---|---|
| 2B | TRISODIUM PHOSPHATE | 3.0 | 180 | 30.0 |
| 2B | NA TRIPOLYPHOSPHATE | 1.5 | 180 | 30.0 |
| 2B | SODIUM METASILICATE | 1.5 | 180 | 30.0 |
| 16 | SODIUM HYDROXIDE | 3.5 | 105 | 30.0 |
| 16 | SODIUM CARBONATE | 0.5 | 105 | 30.0 |
| 4B | FERRIC SULFATE | 10.5 | 90 | 30.0 |
| 4B | NITRIC ACID | 4.05 | 90 | 30.0 |

FOR THE PURPOSE OF THIS CONDITION, CONCENTRATION MEANS ANHYDROUS CONCENTRATION (NOT INCLUDING WATER OR WATER OF HYDRATION).
[RULE 1303(b)(2)-OFFSET, 1401]

9. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD AUTOMATICALLY (CONTINUOUS) OR MANUALLY (ONCE EACH DAY)
[RULE 1303(b)(2)-OFFSET, 1401]

10. A LOG CONCERNING THE OPERATION OF THIS EQUIPMENT SHALL BE KEPT ON FILE FOR A MINIMUM OF FIVE YEARS. THE PAST TWO YEARS' RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:

A. THE RECORDS REQUIRED BY THE CONDITIONS IN THIS PERMIT.

C. THE CONCENTRATION, IN PERCENT BY WEIGHT OF EACH CHEMICAL IN EACH TANK AS DETERMINED EACH MONTH FROM THE ESTIMATED OPERATING LOSSES AND REPLENISHMENT DURING PROCESS OPERATION. THE CONCENTRATION OF EACH CHEMICAL IN EACH TANK SHALL ALSO BE RECORDED IN THIS LOG EACH TIME THE TANK SOLUTION IS REPLACED.

D. MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS CHARGED TO EACH PROCESS TANK AT THIS FACILITY.

[RULE 1303(b)(2)-OFFSET, 1401]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G6864**
**A/N 480192**

**Equipment Description:**

CHROMIC ACID ANODIZING LINE CONSISTING OF:

1. TANK NO. 2, DEGREASING TANK, ALKALINE SOLUTION (BRULIN 815GD), STEAM HEATED.

2. TANK NO. 2C, ALKALINE CLEANER TANK, ALKALINE SOLUTION (D909) WITH SODIUM METASILICATE, TRISODIUM PHOSPHATE, SODIUM TRIPOLY PHOSPHATE AND SURFACTANT, 1'-5" W. X 15'-6" L. X 4'-0" H., STEAM HEATED.

3. TANK NO. 55A, ETCH TANK, NITRIC AND HYDROFLOURIC ACIDS, STEAM HEATED.

4. TANK NO. 16C, TRI-ACID ETCH TANK, SULFURIC, CHROMIC AND HYDROFLUORIC ACIDS, STEAM HEATED.

5. TANK NO. 51B2, PASSIVATE TYPE VI TANK, NITRIC ACID, STEAM HEATED.

6. TANK NO. 51-2, PASSIVATE TYPE VIII, NITRIC ACID, STEAM HEATED.

7. TANK NO. 16A, ALKALINE ETCH TANK, OAKITE 160 (SODIUM HYDROXIDE, SODIUM CARBONATE), STEAM HEATED.

8. TANK NO. 4, CHROMATE DEOXIDIZING TANK, OAKITE LNC (NITRIC ACID, FERRIC SULFATE), STEAM HEATED.

9. TANK NO. 6, CHROMIC ACID ANODIZING TANK, CHROMIC ACID, STEAM HEATED, RECTIFIED.

10. TANK NO. 11D, DILUTE CHROMATE SEALER TANK, SODIUM DICHROMATE AND CHROMIC ACID, STEAM HEATED.

11. ASSOCIATED RINSE TANKS.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

3. ALL TANKS SHALL BE CLEARLY IDENTIFIED AND LABELED WITH APPROPRIATE TANK NUMBERS AS DESIGNATED IN THE EQUIPMENT DESCRIPTION. THE IDENTIFICATION AND/OR LABELING OF EACH TANK SHALL BE DIRECTLY AFFIXED TO EACH TANK AND SHALL BE CLEARLY VISIBLE AND LEGIBLE.
[RULE 1303(b)(2)-OFFSET, 1401]

4. TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
[RULE 1303(b)(2)-OFFSET, 1401]

5. AIR SPARGING, RECTIFICATION, AND/OR HEATING SHALL NOT BE CONDUCTED EXCEPT IN TANKS WHERE THESE OPERATIONS ARE SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION. REMOVAL OF SUCH OPERATIONS SHALL NOT CONSTITUTE A MODIFICATION FOR PERMITTING PURPOSES.
[RULE 1303(b)(2)-OFFSET, 1401]

6. WATER RINSE TANKS THAT CONTAIN CHROMATES, DICHROMATES OR ANY OTHER COMPOUNDS CONTAINING HEXAVALENT CHROMIUM SHALL NOT BE AIR SPARGED.
[RULE 1401]

7. TANK NO.6 SHALL BE EQUIPPED WITH NON-RESETTABLE AMPERE-HOUR METER THAT OPERATE ON THE ELECTRICAL POWER LINE(S) CONNECTED TO THE TANK. A SEPARATE METER SHALL BE HARD-WIRED FOR EACH RECTIFIER.
[RULE 1401, 1469]

8. THE OWNER/OPERATOR SHALL INSPECT AND MAINTAIN THE AMPERE-HOUR METERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
[RULE 1401, 1469]

9. THE TOTAL CURRENT APPLIED TO TANK NO. 6 SHALL BE RECORDED DAILY IN AMP-HOURS.
[RULE 1401, 1469]

10. NITRIC/HYDROFLUORIC ACID ETCH TANK NO. 55A AND CHROMIC ACID ANODIZING TANK NO. 6 SHALL NOT BE OPERATED UNLESS THEY ARE VENTED TO AN AIR POLLUTION CONTROL SYSTEM THAT HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE DISTRICT.
[RULE 1303(a)(1)-BACT, 1401, 1469]

11. DURING THE OPERATION OF THE CHROMIC ACID TANK, THE HEXAVALENT CHROMIUM EMISSIONS DISCHARGED TO THE ATMOSPHERE SHALL NOT EXCEED 0.0015 MILLIGRAM PER AMPERE-HOUR.
[RULE 1469]

12. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, TABLE 1 WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR THE CHEMICALS LISTED IN CONDITION NO. 13.
[RULE 1401]

13. THE PROCESS TANKS IN THIS LINE SHALL BE OPERATED AT OR BELOW THE PARAMETER LIMITS INDICATED IN THE FOLLOWING TABLE:

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

| TANK NO. | CHEMICAL | MAXIMUM CHEMICAL CONCENTRATION (% BY WEIGHT) | MAXIMUM ANNUAL AMPERE-HOUR (PER CALENDAR YEAR) | MAXIMUM OPERATING TEMPERATURE (DEGREES F) | MAXIMUM SURFACE AREA (SQUARE FEET PER TANK) |
|---|---|---|---|---|---|
| 2 | BRULIN 815GD | 7.0 | N/A | 175 | 26.75 |
| 2C | SODIUM METASILICATE | 2.0 | N/A | 180 | 22.0 |
| 2C | TRISODIUM PHOSPHATE | 3.0 | N/A | 180 | 22.0 |
| 2C | Na TRIPOLYPHOSPHATE | 2.0 | N/A | 180 | 22.0 |
| 55A | NITRIC ACID | 54.75 | N/A | AMBIENT | 33.75 |
| 55A | HYDROFLUORIC ACID | 9.5 | N/A | AMBIENT | 33.75 |
| 16C | SULFURIC ACID | 16.75 | N/A | 90 | 27.50 |
| 16C | CHROMIC ACID | 5.6 | N/A | 90 | 27.50 |
| 16C | HYDROFLUORIC ACID | 9.6 | N/A | 90 | 27.50 |
| 51B2 | NITRIC ACID | 52.8 | N/A | 90 | 26.75 |
| 51-2 | NITRIC ACID | 62.56 | N/A | 130 | 26.75 |
| 16A | SODIUM HYDROXIDE | 3.25 | N/A | 105 | 32.00 |
| 16A | SODIUM CARBONATE | 0.5 | N/A | 105 | 32.00 |
| 4 | FERRIC SULFATE | 10.5 | N/A | 90 | 32.00 |
| 4 | NITRIC ACID | 4.05 | N/A | 90 | 32.00 |
| 6 | CHROMIC ACID FLAKES | 5.0 | 9,000,000 | 98 | 54.00 |
| 11D | CHROMIC ACID | 0.1 | N/A | 205 | 26.75 |
| 11D | SODIUM DICHROMATE | 0.1 | N/A | 205 | 26.75 |

[RULE 1303(b)(2)-OFFSET, 1401, 1469]

14. TANKS CONTAINING NITRIC ACID SHALL BE COVERED WHEN NOT IN USE TO ENSURE THAT THE SURFACE OF THE LIQUID IS NOT DIRECTLY EXPOSED TO THE ATMOSPHERE.
[RULE 1303(b)(2)-OFFSET, 1401]

15. TANKS CONTAINING NITRIC ACID SHALL COMPLY WITH THE VISIBLE EMISSION STANDARDS OF DISTRICT RULE 401.
[RULE 401]

16. IN THE EVENT OF VISIBLE NOX EMISSIONS FROM THE TANKS CONTAINING NITRIC ACID, AN AIR POLLUTION CONTROL SYSTEM SHALL BE INSTALLED TO SUFFICIENTLY REDUCE THE EMISSIONS. THE AIR POLLUTION CONTROL SYSTEM CAN INCLUDE, BUT NOT BE LIMITED TO, NOX REDUCING AGENTS AND A NOX SCRUBBER.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

17. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD THE TEMPERATURE OF THE SOLUTIONS DURING OPERATION.
[RULE 1303(b)(2)-OFFSET, 1401]

18. THE OWNER/OPERATOR SHALL RECORD THE CUMULATIVE RECTIFIER USAGE OF THE CHROMIC ACID ANODIZING TANK NO. 6 USED EACH MONTH OF THE REPORTING PERIOD, AND THE TOTAL CAPACITY USED FOR THE REPORTING PERIOD.
[RULE 1401, 1469]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

19. THE OWNER/OPERATOR SHALL MAINTAIN ALL DOCUMENTATION SUPPORTING THE NOTIFICATIONS AND REPORTS REQUIRED BY RULE 1469.
[RULE 1469]

20. THE OWNER/OPERATOR SHALL ANNUALLY COMPLETE, BY FEBRUARY 1 OF EACH YEAR, AN ONGOING COMPLIANCE STATUS REPORT FOR THE PRECEDING CALENDAR YEAR. THE REPORT SHALL CONTAIN THE INFORMATION IDENTIFIED IN APPENDIX 3 OF RULE 1469. THE REPORT SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1469]

21. A LOG CONCERNING THE OPERATION OF THIS EQUIPMENT SHALL BE KEPT ON FILE FOR A MINIMUM OF FIVE YEARS. THE PAST TWO YEARS' RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:

    A. THE RECORDS REQUIRED BY THE CONDITIONS IN THIS PERMIT.

    B. AT LEAST ONCE PER MONTH, THE TOTAL OF AMPERE-HOURS APPLIED TO EACH TANK WITH AMPERE-HOUR METERS AND THE CUMULATIVE TOTAL OF AMPERE-HOURS APPLIED TO EACH TANK TO DATE FOR THE CURRENT CALENDAR YEAR.

    C. THE CONCENTRATION, IN PERCENT BY WEIGHT OF EACH CHEMICAL IN EACH TANK AS DETERMINED EACH MONTH FROM THE ESTIMATED OPERATING LOSSES AND REPLENISHMENT DURING PROCESS OPERATION. THE CONCENTRATION OF EACH CHEMICAL IN EACH TANK SHALL ALSO BE RECORDED IN THIS LOG EACH TIME THE TANK SOLUTION IS REPLACED.

    D. THE CONCENTRATION IN PERCENT BY WEIGHT OF CHROMIC ACID IN ANY TANKS LISTED IN CONDITION NO. 13 SHALL BE DETERMINED EACH MONTH BY QUANTITATIVE ANALYSIS.

    E. MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS CHARGED TO EACH PROCESS TANK AT THIS FACILITY.

    [RULE 1303(b)(2)-OFFSET, 1401, 1469]

22. THE OWNER/OPERATOR SHALL MAINTAIN INSPECTION AND MAINTENANCE RECORDS FOR THE AMPERE-HOUR METERS AND MONITORING EQUIPMENT TO DOCUMENT COMPLIANCE WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS OF THIS PERMIT. THE RECORD SHALL IDENTIFY:

    A. THE DEVICE INSPECTED,
    B. THE DATE AND TIME OF INSPECTION,
    C. THE WORKING CONDITION OF THE DEVICE DURING THE INSPECTION,
    D. ANY MAINTENANCE ACTIVITIES PERFORMED ON THE AMPERE-HOUR METERS, AND
    E. ANY ACTIONS TAKEN TO CORRECT DEFICIENCIES FOUND DURING THE INSPECTION.

    [RULE 1303(b)(2)-OFFSET, 1401, 1469]

23. THE OWNER/OPERATOR SHALL MAINTAIN RECORDS OF EXCESS EMISSIONS INCLUDING, BUT NOT LIMITED TO RECORDS OF ANY EXCEEDANCES OF THE EMISSION LIMITATION AND/OR

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

PARAMETER MONITORING REQUIREMENTS CONTAINED IN THIS PERMIT. THE RECORDS SHALL INCLUDE THE DATE OF THE OCCURRENCE, THE DURATION, CAUSE (IF KNOWN), AND, WHERE POSSIBLE, THE MAGNITUDE OF ANY EXCESS EMISSIONS.

**Emissions And Requirements:**

24. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
$CR^{+6}$: 0.0015 MG/AMP-HR, RULE 1469

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G6865**
**A/N 480196**

**Equipment Description:**

PASSIVATION LINE CONSISTING OF:

1. TANK NO. 1, ALKALINE CLEANER, BRULIN 815GD, STEAM HEATED.

2. TANK NO. 36, ALKALINE CLEANER, D909 (TRISODIUM PHOSPHATE, SODIUM TRIPOLYPHOSPHATE, SODIUM METASILICATE), STEAM HEATED.

3. TANK NO. 38, HCL DESMUT TANK, HYDROCHLORIC ACID, RODINE (ISOPROPYL ALCOHOL, PROPARGYL ALCOHOL, HYDROGEN CHLORIDE), UNHEATED.

4. TANK NO. 51C, TYPE 7 PASSIVATE TANK, NITRIC ACID, STEAM HEATED.

5. TANK NO. 51, TYPE 8 PASSIVATE VIII TANK, NITRIC ACID, STEAM HEATED.

6. TANK NO. 51A, TYPE II PASSIVATE TANK, NITRIC ACID AND SODIUM DICHROMATE, STEAM HEATED.

7. TANK NO. 51B, TYPE VI PASSIVATE TANK, NITRIC ACID, STEAM HEATED.

8. TANK NO. 55, ACID TANK, NITRIC ACID AND HYDROFLUORIC ACID, STEAM HEATED.

9. TANK NO. 56, CHROMATE RINSE, SODIUM DICHROMATE, STEAM HEATED.

10 TANK NO. 51D, TYPE HP4-8 PASSIVATE TANK, NITRIC ACID AND SODIUM DICHROMATE, STEAM HEATED.

11. TANK NO. 53, ELECTROPOLISH TANK, PHOSPHORIC ACID AND SULFURIC ACID, STEAM HEATED AND RECTIFIED.

12. TANK 55B, NITRIC ACID AND HYDROFLUORIC ACID.

13. ASSOCIATED RINSE TANKS.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD THE TEMPERATURE, AUTOMATICALLY (CONTINUOUS) OR MANUALLY (ONCE EACH DAY), OF THE SOLUTIONS DURING OPERATION.
[RULE 1303(b)(2)-OFFSET, 1401]

4. ALL TANKS SHALL BE CLEARLY IDENTIFIED AND LABELED WITH APPROPRIATE TANK NUMBERS AS DESIGNATED IN THE EQUIPMENT DESCRIPTION. THE IDENTIFICATION AND/OR LABELING OF EACH TANK SHALL BE DIRECTLY AFFIXED TO EACH TANK AND SHALL BE CLEARLY VISIBLE AND LEGIBLE.
[RULE 1303(b)(2)-OFFSET, 1401]

5. TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
[RULE 1303(b)(2)-OFFSET, 1401]

6. AIR SPARGING, RECTIFICATION, AND/OR HEATING SHALL NOT BE CONDUCTED EXCEPT IN TANKS WHERE THESE OPERATIONS ARE SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION. REMOVAL OF SUCH OPERATIONS SHALL NOT CONSTITUTE A MODIFICATION FOR PERMITTING PURPOSES.
[RULE 1303(b)(2)-OFFSET, 1401]

7. ALL THE TANKS WITH NITRIC ACID SHALL BE KEPT COVERED WHEN NOT IN USE.
[RULE 1303(b)(2)-OFFSET, 401]

8. TANK NO. 53 SHALL BE EQUIPPED WITH NON-RESETTABLE AMPERE-HOUR METERS THAT OPERATE ON THE ELECTRICAL POWER LINE(S) CONNECTED TO EACH TANK. A SEPARATE METER SHALL BE HARD-WIRED FOR EACH RECTIFIER.
[RULE 1303(b)(2)-OFFSET, 1401]

9. THE OWNER/OPERATOR SHALL INSPECT AND MAINTAIN THE AMPERE-HOUR METERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
[RULE 1303(b)(2)-OFFSET, 1401]

10. THE TOTAL CURRENT APPLIED TO TANK NO. 53 SHALL BE RECORDED DAILY IN AMP-HOURS.
[RULE 1303(b)(2)-OFFSET, 1401]

11. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, TABLE 1 WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR THE CHEMICALS LISTED IN CONDITION NO. 13.
[RULE 1401]

12. IN THE EVENT OF VISIBLE NOX EMISSIONS FROM TYPE 7 PASSIVATION TANK NO. 51C, TYPE 8 PASSIVATION TANK NO. 51, TYPE 2 PASSIVATION TANK NO. 51A, TYPE 6 PASSIVATION TANK NO. 51B, NITRIC/HYDROFLUORIC ACID TANK NO. 55, AND NITRIC ACID TANK NO. 40, AN AIR POLLUTION CONTROL SYSTEM SHALL BE INSTALLED TO SUFFICIENTLY REDUCE THE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

EMISSIONS. THE AIR POLLUTION CONTROL SYSTEM CAN INCLUDE, BUT NOT BE LIMITED TO, NOX REDUCING AGENTS AND A NOX SCRUBBER.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

13. THE PROCESS TANKS IN THIS LINE SHALL BE OPERATED AT OR BELOW THE PARAMETER LIMITS INDICATED IN THE FOLLOWING TABLE:

| TANK NO. | CHEMICALS | MAXIMUM CHEMICAL CONCENTRATION (% BY WEIGHT) | MAXIMUM ANNUAL AMPERE-HOUR (PER CALENDAR YEAR) | MAXIMUM OPERATING TEMPERATURE (DEGREES F) | MAXIMUM SURFACE AREA (SQ. FEET PER TANK) |
|---|---|---|---|---|---|
| 1 | BRULIN 815GD | 7.0 | N/A | 175 | 6.5 |
| 36 | TRISODIUM PHOSPHATE | 3.0 | N/A | 180 | 10.0 |
| 36 | Na TRIPOLYPHOSPHATE | 1.5 | N/A | 180 | 10.0 |
| 36 | SODIUM METASILICATE | 1.5 | N/A | 180 | 10.0 |
| 38 | HYDROCHLORIC ACID | 22.0 | N/A | AMBIENT | 3.0 |
| 38 | ISOPROPYL ALCOHOL | 1.0 | N/A | AMBIENT | 3.0 |
| 38 | PROPARGYL ALCOHOL | 1.0 | N/A | AMBIENT | 3.0 |
| 51C | NITRIC ACID | 31.3 | N/A | AMBIENT | 3.0 |
| 51 | NITRIC ACID | 62.56 | N/A | AMBIENT | 3.0 |
| 51A | NITRIC ACID | 29.1 | N/A | AMBIENT | 3.0 |
| 51A | SODIUM DICHROMATE | 7.5 | N/A | AMBIENT | 3.0 |
| 51B | NITRIC ACID | 52.80 | N/A | AMBIENT | 3.0 |
| 55 | NITRIC ACID | 54.74 | N/A | 95 | 3.0 |
| 55 | HYDROFLUORIC ACID | 9.5 | N/A | 95 | 3.0 |
| 56 | SODIUM DICHROMATE | 6.0 | N/A | 160 | 3.0 |
| 51D | SODIUM DICHROMATE | 3.5 | N/A | AMBIENT | 3.0 |
| 51D | NITRIC ACID | 26.9 | N/A | AMBIENT | 3.0 |
| 53 | SULFURIC ACID | 12.0 | 8,000,000 | 170 | 27.0 |
| 53 | PHOSPHORIC ACID | 79.5 | 8,000,000 | 170 | 27.0 |
| 55B | NITRIC ACID | 35.81 | N/A | AMBIENT | 3.9 |
| 55B | HYDROFLUORIC ACID | 15.30 | N/A | AMBIENT | 3.9 |

[RULE 1303(b)(2)-OFFSET, 1401]

14. A LOG CONCERNING THE OPERATION OF THIS EQUIPMENT SHALL BE KEPT ON FILE FOR A MINIMUM OF FIVE YEARS. THE PAST TWO YEARS' RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:

A. THE RECORDS REQUIRED BY THE CONDITIONS IN THIS PERMIT.

B. AT LEAST ONCE PER MONTH, THE TOTAL OF AMPERE-HOURS APPLIED TO EACH TANK WITH ANNUAL AMPERE-HOUR LIMITS SPECIFIED IN CONDITION NO. 13, AND THE CUMULATIVE TOTAL OF AMPERE-HOURS APPLIED TO DATE FOR THE CURRENT CALENDAR YEAR.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

C. THE CONCENTRATION, IN PERCENT BY WEIGHT OF EACH CHEMICAL IN EACH TANK AS DETERMINED EACH MONTH FROM THE ESTIMATED OPERATING LOSSES AND REPLENISHMENT DURING PROCESS OPERATION. THE CONCENTRATION OF EACH CHEMICAL IN EACH TANK SHALL ALSO BE RECORDED IN THIS LOG EACH TIME THE TANK SOLUTION IS REPLACED.

D. MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS CHARGED TO EACH PROCESS TANK AT THIS FACILITY.

[RULE 1303(b)(2)-OFFSET, 1401]

15. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST. [RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET, 1401]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## PERMIT TO OPERATE

**Permit No. G4689**
**A/N 500682**

**Equipment Description:**

TITANIUM ANODIZING LINE CONSISTING OF:

1. TANK, NO. 100, ANODIZING, POTASSIUM HYDROXIDE, RECTIFIED, AND ELECTRICALLY HEATED.

2. ASSOCIATED RINSE AND DRAG-OUT TANKS.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. ALL TANKS SHALL BE CLEARLY IDENTIFIED AND LABELED WITH APPROPRIATE TANK NUMBERS AS DESIGNATED IN THE EQUIPMENT DESCRIPTION. THE IDENTIFICATION AND/OR LABELING OF EACH TANK SHALL BE DIRECTLY AFFIXED TO EACH TANK AND SHALL BE CLEARLY VISIBLE AND LEGIBLE.
[RULE 1303(b)(2)-OFFSET, 1401]

4. TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
[RULE 1303(b)(2)-OFFSET, 1401]

5. AIR SPARGING, RECTIFICATION, AND/OR HEATING SHALL NOT BE CONDUCTED EXCEPT IN TANKS WHERE THESE OPERATIONS ARE SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION. DISCONTINUATION OF SUCH OPERATIONS SHALL NOT CONSTITUTE A MODIFICATION FOR PERMITTING PURPOSES.
[RULE 1303(b)(2)-OFFSET, 1401]

6. THE SURFACE OF THE SOLUTION IN TANK NO. 100 SHALL BE KEPT PERMANENTLY COVERED WITH FLOATING POLYBALLS. THE TANK SHALL BE KEPT COVERED WHEN NOT IN USE.
[RULE 1303(b)(2)-OFFSET, 1401]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

7. THE ANODIZING TANK NO. 100 SHALL BE EQUIPPED WITH A NON-RESETTABLE AMPERE-HOUR METER THAT OPERATES ON THE ELECTRICAL LINE AND MEASURES THE AMOUNT OF ELECTRICAL CURRENT APPLIED TO THE TANK. THE METER SHALL BE MOUNTED IN A LOCATION SUCH THAT IT IS EASILY ACCESSIBLE FOR MAINTENANCE AND THE TOTALIZING DISPLAY IS EASILY READABLE.
[RULE 1303(b)(2)-OFFSET, 1401]

8 MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, TABLE 1 WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR THE CHEMICALS LISTED IN CONDITION NO. 9.
[RULE 1401]

9. THE PROCESS TANKS IN THIS LINE SHALL BE OPERATED AT OR BELOW THE PARAMETER LIMITS INDICATED IN THE FOLLOWING TABLE:

| TANK NO. | CHEMICAL | MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%) | MAXIMUM ANNUAL AMPERE-HOURS (CALENDAR YEAR) | MAXIMUM OPERATING TEMP. (DEGREES FAHRENHEIT) | MAXIMUM SURFACE AREA (SQUARE FEET PER TANK) |
|---|---|---|---|---|---|
| 100 | POTASSIUM HYDROXIDE | 12.0 | 975,800 | 115 | 28 |

FOR THE PURPOSE OF THIS CONDITION, CONCENTRATION MEANS ANHYDROUS CONCENTRATION (NOT INCLUDING WATER OR WATER OF HYDRATION).
[RULE 1303(b)(2)-OFFSET, 1401]

10. A LOG CONCERNING THE OPERATION OF THIS EQUIPMENT SHALL BE KEPT ON FILE FOR A MINIMUM OF FIVE YEARS. THE PAST TWO YEARS' RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:

A) AT LEAST ONCE PER MONTH, THE AMPERE-HOUR READINGS FROM EACH RECTIFIER CURRENT METER, AND THE CUMULATIVE AMPERE-HOURS APPLIED TO EACH RECTIFIED TANK IN THE PRESENT CALENDAR YEAR.

B) THE CONCENTRATION, IN PERCENT BY WEIGHT, OF COMPOUNDS LISTED IN CONDITION NO. 9 OF THIS PERMIT, AS DETERMINED EACH MONTH BY CALCULATION FROM REPLENISHMENT RECORDS OR LABORATORY QUANTITATIVE ANALYSIS.

C) MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL THE MATERIALS CHARGED TO EACH CHEMICAL PROCESS TANK AT THIS FACILITY.
[RULE 1303(b)(2)-OFFSET, 1401]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

**Periodic Monitoring:**

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, AND (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATINGS.

   FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, AND (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATINGS.
   [RULE 3004 (a)(4)]

**Emissions And Requirements:**

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 109

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, BOILER, > 400,000 BTU/HR BUT < 2 MMBTU/HR.

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

| | |
|---|---|
| PM: | 0.1 gr/scf, RULE 409 |
| NOx: | 30 PPMV, RULE 1146.2 |
| CO: | 400 PPMV, RULE 1146.2 |
| CO: | 2000 PPMV, RULE 407 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
   a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
   b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
   c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]

6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]

7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]

   a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]

   b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]

   c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]

   d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO2) and be averaged over 15 consecutive minutes; [407]

   e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO2) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION E: ADMINISTRATIVE CONDITIONS

f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O2) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]

8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]

a. Brief description of the equipment tested.

b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.

c. Operating conditions under which the test will be performed.

d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).

e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.

f. Description of calibration and quality assurance procedures.

g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).

9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]

a. The results of the source test.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION E: ADMINISTRATIVE CONDITIONS

b. Brief description of the equipment tested.

c. Operating conditions under which the test was performed.

d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).

e. Field and laboratory data forms, strip charts and analyses.

f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.

10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]

11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

NOT APPLICABLE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

NOT APPLICABLE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

See Section D of this permit for any Permit to Construct issued to this facility.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION J: AIR TOXICS

NOT APPLICABLE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

**GENERAL PROVISIONS**

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]

2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

**Permit Renewal and Expiration**

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

   (B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]

4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

**Duty to Provide Information**

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

**Payment of Fees**

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

**Reopening for Cause**

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:

   (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.

   (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

   (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

**COMPLIANCE PROVISIONS**

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:

   (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or

   (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

   Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:

   (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;

   (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

   (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

   (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]

15. Nothing in this permit or in any permit shield can alter or affect:

    (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;

    (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;

    (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;

    (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;

    (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and

    (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]

16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

**EMERGENCY PROVISIONS**

17. An emergency[1] constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:

    (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:

        (1) An emergency occurred and the operator can identify the cause(s) of the emergency;

        (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;

        (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,

        (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

    (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]

18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

---

1 "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

**RECORDKEEPING PROVISIONS**

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

    (A) The date, place as defined in the Title V permit, and time of sampling or measurements;

    (B) The date(s) analyses were performed;

    (C) The company or entity that performed the analyses;

    (D) The analytical techniques or methods used;

    (E) The results of such analyses; and

    (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

**REPORTING PROVISIONS**

22. The operator shall comply with the following requirements for prompt reporting of deviations:

    (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

(B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.

(C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.

(D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]

23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]

24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:

(A) Identification of each permit term or condition that is the basis of the certification;

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

(B) The compliance status during the reporting period;

(C) Whether compliance was continuous or intermittent;

(D) The method(s) used to determine compliance over the reporting period and currently, and

(E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

**PERIODIC MONITORING**

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

*FACILITY RULES*

*This facility is subject to the following rules and regulations*

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|---|---|---|
| RULE 109 | 5-2-2003 | Federally enforceable |
| RULE 1113 | 6-3-2011 | Non federally enforceable |
| RULE 1113 | 7-13-2007 | Federally enforceable |
| RULE 1124 | 9-21-2001 | Federally enforceable |
| RULE 1140 | 2-1-1980 | Federally enforceable |
| RULE 1140 | 8-2-1985 | Non federally enforceable |
| RULE 1146.2 | 5-5-2006 | Federally enforceable |
| RULE 1147 | 9-9-2011 | Non federally enforceable |
| RULE 1155 | 12-4-2009 | Non federally enforceable |
| RULE 1171 | 2-1-2008 | Federally enforceable |
| RULE 1171 | 5-1-2009 | Non federally enforceable |
| RULE 118 | 12-7-1995 | Non federally enforceable |
| RULE 1303(a)(1)-BACT | 5-10-1996 | Federally enforceable |
| RULE 1303(b)(2)-Offset | 5-10-1996 | Federally enforceable |
| RULE 1304(a)-Modeling and Offset Exemption | 6-14-1996 | Federally enforceable |
| RULE 1401 | 12-7-1990 | Non federally enforceable |
| RULE 1401 | 3-4-2005 | Non federally enforceable |
| RULE 1401 | 3-7-2008 | Non federally enforceable |
| RULE 1401 | 8-18-2000 | Non federally enforceable |
| RULE 1469 | 12-5-2008 | Non federally enforceable |
| RULE 1469.1 | 3-4-2005 | Non federally enforceable |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## SECTION K: TITLE V Administration

| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|---|---|---|
| RULE 204 | 10-8-1993 | Federally enforceable |
| RULE 217 | 1-5-1990 | Federally enforceable |
| RULE 219 | 6-1-2007 | Non federally enforceable |
| RULE 219 | 9-4-1981 | Federally enforceable |
| RULE 3002 | 11-14-1997 | Federally enforceable |
| RULE 3002 | 11-5-2010 | Non federally enforceable |
| RULE 3003 | 11-14-1997 | Federally enforceable |
| RULE 3003 | 11-5-2010 | Non federally enforceable |
| RULE 3004 | 12-12-1997 | Federally enforceable |
| RULE 3004(a)(4)-Periodic Monitoring | 12-12-1997 | Federally enforceable |
| RULE 3005 | 11-14-1997 | Federally enforceable |
| RULE 3005 | 11-5-2010 | Non federally enforceable |
| RULE 3007 | 10-8-1993 | Federally enforceable |
| RULE 304 | 6-1-2012 | Non federally enforceable |
| RULE 401 | 11-9-2001 | Non federally enforceable |
| RULE 401 | 3-2-1984 | Federally enforceable |
| RULE 402 | 5-7-1976 | Non federally enforceable |
| RULE 404 | 2-7-1986 | Federally enforceable |
| RULE 405 | 2-7-1986 | Federally enforceable |
| RULE 407 | 4-2-1982 | Federally enforceable |
| RULE 408 | 5-7-1976 | Federally enforceable |
| RULE 409 | 8-7-1981 | Federally enforceable |
| RULE 430 | 7-12-1996 | Non federally enforceable |
| RULE 431.2 | 5-4-1990 | Federally enforceable |
| RULE 431.2 | 9-15-2000 | Non federally enforceable |
| RULE 442 | 12-15-2000 | Federally enforceable |
| RULE 481 | 1-11-2002 | Federally enforceable |
| RULE 701 | 6-13-1997 | Federally enforceable |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219

NONE

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 06-03-2011]

(1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District:

(A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or

(B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).

(2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 06-03-2011]

### TABLE OF STANDARDS 1
### VOC LIMITS

### Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds

| COATING CATEGORY | Ceiling Limit[1] | Current Limit[2] | Effective Date | | |
|---|---|---|---|---|---|
| | | | 7/1/08 | 1/1/12 | 1/1/14 |
| Bond Breakers | | 350 | | | |
| Clear Wood Finishes | | 275 | | | |
| Varnish | 350 | 275 | | | |
| Sanding Sealers | 350 | 275 | | | |
| Lacquer | | 275 | | | |
| Concrete-Curing Compounds | | 100 | | | |
| Concrete-Curing Compounds For Roadways and Bridges[3] | | 350 | | | |
| Concrete Surface Retarder | | 250 | | | 50 |
| Driveway Sealer | | 100 | | 50 | |
| Dry-Fog Coatings | | 150 | | | 50 |
| Faux Finishing Coatings | | | | | |
| Clear Topcoat | | 350 | | 200 | |
| Decorative Coatings | | 350 | | | 100 |
| Glazes | | 350 | | | |
| Japan | | 350 | | | |
| Trowel Applied Coatings | | 350 | | 150 | 50 |
| Fire-Proofing Coatings | | 350 | | | 150 |
| Flats | 250 | 50 | 50 | | |
| Floor Coatings | 100 | 50 | | | |
| Form Release Compound | | 250 | | | 100 |
| Graphic Arts (Sign) Coatings | | 500 | | | 150 |
| Industrial Maintenance (IM) Coatings | 420 | 100 | | | |
| High Temperature IM Coatings | | 420 | | | |
| Non-Sacrificial Anti-Graffiti Coatings | | 100 | | | |
| Zinc-Rich IM Primers | 340 | 100 | | | |
| Magnesite Cement Coatings | | 450 | | | |
| Mastic Coatings | | 300 | | | 100 |
| Metallic Pigmented Coatings | 500 | 500 | | | 150 |
| Multi-Color Coatings | | 250 | | | |
| Nonflat Coatings | 150 | 50 | | | |
| Pre-Treatment Wash Primers | | 420 | | | |
| Primers, Sealers, and Undercoaters | 200 | 100 | | | |
| Reactive Penetrating Sealers | | 350 | | | |
| Recycled Coatings | | 250 | | | |
| Roof Coatings | 250 | 50 | | | |
| Roof Coatings, Aluminum | | 100 | | | |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 06-03-2011]

| | | | | | |
|---|---|---|---|---|---|
| Roof Primers, Bituminous | 350 | 350 | | | |
| Rust Preventative Coatings | 400 | 100 | | | |
| Stone Consolidant | | 450 | | | |
| Sacrificial Anti-Graffiti Coatings | | 100 | | 50 | |
| Shellac | | | | | |
| Clear | | 730 | | | |
| Pigmented | | 550 | | | |
| Specialty Primers | 350 | 100 | | | |
| Stains | | 100 | | | |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 06-03-2011]

| COATING CATEGORY | Ceiling Limit[1] | Current Limit[2] | Effective Date | | |
|---|---|---|---|---|---|
| | | | 7/1/08 | 1/1/12 | 1/1/14 |
| Stains, Interior | 250 | 250 | | | |
| Swimming Pool Coatings | | | | | |
| Repair | | 340 | | | |
| Other | | 340 | | | |
| Traffic Coatings | | 100 | | | |
| Waterproofing Sealers | 250 | 100 | | | |
| Waterproofing Concrete/Masonry Sealers | 400 | 100 | | | |
| Wood Preservatives | | 350 | | | |

1. The specified ceiling limits are applicable to products sold under the Averaging Compliance Option.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
3. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

## TABLE OF STANDARDS 1 (cont.)
## VOC LIMITS

### Grams of VOC Per Liter of Material

| COATING | Limit |
|---|---|
| Low-Solids Coating | 120 |

## TABLE OF STANDARDS 2
## VOC LIMITS FOR COLORANTS

### Grams of VOC Per Liter of Colorant
### Less Water and Less Exempt Compounds

| COLORANT | Limit[4] |
|---|---|
| Architectural Coatings, excluding IM Coatings | 50 |
| Solvent-Based IM | 600 |
| Waterborne IM | 50 |

4. Effective January 1, 2014.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 07-13-2007]

(1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.

(2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 07-13-2007]
## TABLE OF STANDARDS
## VOC LIMITS

### Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds

| COATING CATEGORY | Ceiling Limit* | Current Limit | Effective Date | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1/1/03 | 1/1/04 | 1/1/05 | 7/1/06 | 7/1/07 | 7/1/08 |
| Bond Breakers | 350 | | | | | | | |
| Clear Wood Finishes | 350 | | | | | 275 | | |
| Varnish | 350 | | | | | 275 | | |
| Sanding Sealers | 350 | | | | | 275 | | |
| Lacquer | 680 | 550 | | | 275 | | | |
| Clear Brushing Lacquer | 680 | | | | 275 | | | |
| Concrete-Curing Compounds | 350 | | | | | | 100 | |
| Concrete-Curing Compounds For Roadways and Bridges** | 350 | | | | | | | |
| Dry-Fog Coatings | 400 | | | | | | 150 | |
| Fire-Proofing Exterior Coatings | 450 | 350 | | | | | | |
| Fire-Retardant Coatings*** | | | | | | | | |
| Clear | 650 | | | | | | | |
| Pigmented | 350 | | | | | | | |
| Flats | 250 | 100 | | | | | | 50 |
| Floor Coatings | 420 | | 100 | | | 50 | | |
| Graphic Arts (Sign) Coatings | 500 | | | | | | | |
| Industrial Maintenance (IM) Coatings | 420 | | | 250 | | 100 | | |
| High Temperature IM Coatings | | | 420 | | | | | |
| Zinc-Rich IM Primers | 420 | | 340 | | | 100 | | |
| Japans/Faux Finishing Coatings | 700 | 350 | | | | | | |
| Magnesite Cement Coatings | 600 | 450 | | | | | | |
| Mastic Coatings | 300 | | | | | | | |
| Metallic Pigmented Coatings | 500 | | | | | | | |
| Multi-Color Coatings | 420 | 250 | | | | | | |
| Nonflat Coatings | 250 | | 150 | | | 50 | | |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 07-13-2007]

| COATING CATEGORY | Ceiling Limit* | Current Limit | Effective Date | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1/1/03 | 1/1/04 | 1/1/05 | 7/1/06 | 7/1/07 | 7/1/08 |
| Nonflat High Gloss | 250 | | 150 | | | | 50 | |
| Pigmented Lacquer | 680 | 550 | | | 275 | | | |
| Pre-Treatment Wash Primers | 780 | | 420 | | | | | |
| Primers, Sealers, and Undercoaters | 350 | | 200 | | | 100 | | |
| Quick-Dry Enamels | 400 | | 250 | | | 150 | 50 | |
| Quick-Dry Primers, Sealers, and Undercoaters | 350 | | 200 | | | 100 | | |
| Recycled Coatings | | | 250 | | | | | |
| Roof Coatings | 300 | | 250 | | 50 | | | |
| Roof Coatings, Aluminum | 500 | | | | 100 | | | |
| Roof Primers, Bituminous | 350 | | 350 | | | | | |
| Rust Preventative Coatings | 420 | | 400 | | | 100 | | |
| Shellac | | | | | | | | |
| Clear | 730 | | | | | | | |
| Pigmented | 550 | | | | | | | |
| Specialty Primers | 350 | | | | | 250 | 100 | |
| Stains | 350 | | 250 | | | | 100 | |
| Stains, Interior | 250 | | | | | | | |
| Swimming Pool Coatings | | | | | | | | |
| Repair | 650 | | 340 | | | | | |
| Other | 340 | | | | | | | |
| Traffic Coatings | 250 | 150 | | | | | 100 | |
| Waterproofing Sealers | 400 | | 250 | | | 100 | | |
| Waterproofing Concrete/Masonry Sealers | 400 | | | | | 100 | | |
| Wood Preservatives | | | | | | | | |
| Below-Ground | 350 | | | | | | | |
| Other | 350 | | | | | | | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 07-13-2007]

### TABLE OF STANDARDS (cont.)
### VOC LIMITS

**Grams of VOC Per Liter of Material**

| COATING | Limit |
|---|---|
| Low-Solids Coating | 120 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1124 09-21-2001]

Except as otherwise provided in Rule 1124

(1) VOC Content of Aerospace Materials

(A) A person shall not apply to aerospace components any materials, including any VOC-containing materials added to the original material supplied by the manufacturer, which contain VOC in excess of the limits specified below:

| **VOC Limit**<br>**Grams of VOC per Liter, Less Water and Less Exempt Compounds** | | | |
|---|---|---|---|
| **Primers** | **Current VOC Limit** | **VOC Limit Effective 1-1-03** | **VOC Limit Effective 1-1-05** |
| General Primer | 350 | 350 | 350 |
| Low-Solids Corrosion Resistant Primer | 350 | 350 | 350 |
| Pretreatment Primer | 780 | 780 | 780 |
| Rain Erosion-Resistant Coating Compatible Primer | 850 | 850 | 850 |
| Adhesion Promoter | 850 | 850 | 250 |
| Adhesive Bonding Primer | | | |
| New Commercial Aircraft | 805 | 250 | 250 |
| All Military Aircraft | 805 | 805 | 805 |
| Remanufactured Commercial Aircraft Parts | 805 | 805 | 805 |
| Sonic and Acoustic Applications | 805 | 805 | 805 |
| Adhesive Bonding Primer | | | |
| Long Term | 250 | 250 | 250 |
| Short Term | 250 | 250 | 250 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1124 09-21-2001]

| Coatings | Current VOC Limit | VOC Limit Effective 3-01-02 |
|---|---|---|
| Topcoat | 420 | 420 |
| Clear Topcoat | 520 | 520 |
| Unicoat | 420 | 420 |
| Wing Coating | 750 | 750 |
| Impact Resistant Coating | 420 | 420 |
| High-Temperature Coating | 850 | 850 |
| Antichafe Coating | 600 | 420 |
| Rain Erosion-Resistant Coating | 800 | 800 |
| Conformal Coating | 750 | 750 |
| Optical Anti-Reflective Coating | 700 | 700 |
| Scale Inhibitor | 880 | 880 |
| Metallized Epoxy Coating | 700 | 700 |
| Electric or Radiation Effect Coating | 800 | 800 |
| Temporary Protective Coating | 250 | 250 |
| Fuel Tank Coatings | 420 | 420 |
| Mold Release Coatings | 780 | 780 |
| Flight Test Coatings | | |
| Used on Missiles or Single Use Target Craft | 420 | 420 |
| All Other | 840 | 840 |
| Fire Resistant Coatings | | |
| Commercial | 650 | 650 |
| Military | 970 | 800 |
| Wire Coatings | | |
| Phosphate Ester Resistant Ink | 925 | 925 |
| Other | 420 | 420 |
| Space Vehicle Coatings | | |
| Electrostatic Discharge Protection Coating | 800 | 800 |
| Other | 1000 | 1000 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1124 09-21-2001]

| Adhesives | Current VOC Limit |
|---|---|
| Non-Structural Adhesive | 250 |
| Structural Adhesive | |
| Autoclavable | 50 |
| Non-Autoclavable | 850 |
| Space Vehicle Adhesive | 800 |
| Fuel Tank Adhesive | 620 |

| Sealants | Current VOC Limit | VOC Limit Effective 3-01-02 |
|---|---|---|
| Fastener Sealant | 675 | 675 |
| Extrudable,Rollable or Brushable Sealant | 600 | 280 |
| Other | 600 | 600 |

| Maskants | Current VOC Limit |
|---|---|
| For Chemical Processing | 250 |
| For Chemical Milling | |
| Type I | 250 |
| Type II | 160 |
| Photolithographic | 850 |
| Touch-up, Line Sealer Maskants | 750 |

| Lubricants | Current VOC Limit |
|---|---|
| Fastener Installation | |
| Solid-Film Lubricant | 880 |
| Dry Lubricative Materials | 675 |
| Fastener-Lubricative Coatings, Fastener Manufacturing | |
| Solid Film Lubricant | 250 |
| Dry Lubricative Materials | 120 |
| Barrier Coating | 420 |
| Non-Fastener Lubricative Coatings, Fastener Manufacturing | |
| Solid Film Lubricant | 880 |
| Dry Lubricative Materials | 675 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1124 09-21-2001]

| VOC LIMIT<br>Grams of VOC per Liter of Material | |
|---|---|
| **Cleaning Solvents and Strippers** | **Current VOC Limit** |
| Cleaning Solvents | 200 g/L<br>or<br>45 mm Hg VOC Composite Partial Pressure |
| Strippers | 300 g/L<br>or<br>9.5 mm Hg VOC Composite Partial Pressure |

(B) Documents shall be provided to the Executive Officer or his designee demonstrating that unicoat is being used in lieu of the application of a primer and topcoat, and the applicant must receive written approval for the use of unicoat specifying the conditions of application from the Executive Officer or his designee.

(C) For low-solids adhesives, coatings, primers or sealants, the appropriate limits in subparagraph (c)(1)(A) shall be expressed in grams of VOC per liter of material.

(2) Solvent Cleaning Operations; Storage and Disposal of VOC-Containing Materials

(A) Cleaning of material application equipment and storage of solvent laden cloth and paper shall comply with provisions of Rule 1171.

(B) A person shall not atomize any solvent into open air.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1140 02-01-1980]

(1) The operator shall not, if he complies with an applicable performance standard in section (b)(4) of Rule 1140, discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(A) As dark or darker in shade as that designated as No. 2 on the Ringelmann Chart, as published by the United States Bureau of Mines, or

(B) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in (1)(A).

(2) The operator shall not, if he is not complying with an applicable performance standard in section (b)(4) of Rule 1140, discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(A) As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or

(B) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in (2)(A).

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1140 08-02-1985]

(1) The operator shall not, if he complies with an applicable performance standard in section (b)(4) of Rule 1140, discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(A) As dark or darker in shade as that designated as No. 2 on the Ringelmann Chart, as published by the United States Bureau of Mines, or

(B) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in (1)(A).

(2) The operator shall not, if he is not complying with an applicable performance standard in section (b)(4) of Rule 1140, discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(A) As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or

(B) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in (2)(A).

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1171 02-01-2008]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008* | EFFECTIVE 1/1/2009 |
|---|---|---|---|
| **SOLVENT CLEANING ACTIVITY** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** |
| (A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application | | | |
| (i) General | 25 (0.21) | | |
| (ii) Electrical Apparatus Components & Electronic Components | 100 (0.83) | | |
| (iii) Medical Devices & Pharmaceuticals | 800 (6.7) | | |
| (B) Repair and Maintenance Cleaning | | | |
| (i) General | 25 (0.21) | | |
| (ii) Electrical Apparatus Components & Electronic Components | 100 (0.83) | | |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1171 02-01-2008]

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008* | EFFECTIVE 1/1/2009 |
|---|---|---|---|
| **SOLVENT CLEANING ACTIVITY (cont.)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** |
| (iii) Medical Devices & Pharmaceuticals | | | |
| (A) Tools, Equipment, & Machinery | 800 (6.7) | | |
| (B) General Work Surfaces | 600 (5.0) | | |
| (C) Cleaning of Coatings or Adhesives Application Equipment | 25 (0.21) | | |
| (D) Cleaning of Ink Application Equipment | | | |
| (i) General | 25 (0.21) | | |
| (ii) Flexographic Printing | 25 (0.21) | | |
| (iii) Gravure Printing | | | |
| (A) Publication | 100 (0.83) | | |
| (B) Packaging | 25 (0.21) | | |
| (iv) Lithographic (Offset) or Letter Press Printing | | | |
| (A) Roller Wash, Blanket Wash, & On-Press Components | | | |
| (I) Newsprint | 100 (0.83) | | |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1171 02-01-2008]

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008* | EFFECTIVE 1/1/2009 |
|---|---|---|---|
| **SOLVENT CLEANING ACTIVITY (cont.)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** |
| (II) Other Substrates | 500 (4.2) | 100 (0.83) | |
| (B) Removable Press Components | 25 (0.21) | | |
| (v) Screen Printing | 500 (4.2) | 100 (0.83) | |
| (vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing) | 650 (5.4) | 650 (5.4) | 100 (0.83) |
| (vii) Specialty Flexographic Printing | 100 (0.83) | | |
| (E) Cleaning of Polyester Resin Application Equipment | 25 (0.21) | | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1171 05-01-2009]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

| | CURRENT LIMITS* | EFFECTIVE 1/1/2010 |
|---|---|---|
| **SOLVENT CLEANING ACTIVITY** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** |
| (A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application | | |
| (i) General | 25 (0.21) | |
| (ii) Electrical Apparatus Components & Electronic Components | 100 (0.83) | |
| (iii) Medical Devices & Pharmaceuticals | 800 (6.7) | |
| (B) Repair and Maintenance Cleaning | | |
| (i) General | 25 (0.21) | |
| (ii) Electrical Apparatus Components & Electronic Components | 100 (0.83) | |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1171 05-01-2009]

| | CURRENT LIMITS* | EFFECTIVE 1/1/2010 |
|---|---|---|
| **SOLVENT CLEANING ACTIVITY (cont.)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** |
| (iii) Medical Devices & Pharmaceuticals | | |
| (A) Tools, Equipment, & Machinery | 800 (6.7) | |
| (B) General Work Surfaces | 600 (5.0) | |
| (C) Cleaning of Coatings or Adhesives Application Equipment | 25 (0.21) | |
| (D) Cleaning of Ink Application Equipment | | |
| (i) General | 25 (0.21) | |
| (ii) Flexographic Printing | 25 (0.21) | |
| (iii) Gravure Printing | | |
| (A) Publication | 100 (0.83) | |
| (B) Packaging | 25 (0.21) | |
| (iv) Lithographic (Offset) or Letter Press Printing | | |
| (A) Roller Wash, Blanket Wash, & On-Press Components | 100 (0.83) | |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1171 05-01-2009]

| | CURRENT LIMITS* | EFFECTIVE 1/1/2010 |
|---|---|---|
| **SOLVENT CLEANING ACTIVITY (cont.)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** |
| (B) Removable Press Components | 25 (0.21) | |
| (v) Screen Printing | 100 (0.83) | |
| (vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing) | 650 (5.4) | 100 (0.83) |
| (vii) Specialty Flexographic Printing | 100 (0.83) | |
| (E) Cleaning of Polyester Resin Application Equipment | 25 (0.21) | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 404(a)**

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|---|---|---|---|---|---|---|---|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 25 or less | 883 or less | 450 | 0.196 | 900 | 31780 | 118 | 0.0515 |
| 30 | 1059 | 420 | .183 | 1000 | 35310 | 113 | .0493 |
| 35 | 1236 | 397 | .173 | 1100 | 38850 | 109 | .0476 |
| 40 | 1413 | 377 | .165 | 1200 | 42380 | 106 | .0463 |
| 45 | 1589 | 361 | .158 | 1300 | 45910 | 102 | .0445 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 404 02-07-1986]

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|---|---|---|---|---|---|---|---|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 50 | 1766 | 347 | .152 | 1400 | 49440 | 100 | .0437 |
| 60 | 2119 | 324 | .141 | 1500 | 52970 | 97 | .0424 |
| 70 | 2472 | 306 | .134 | 1750 | 61800 | 92 | .0402 |
| 80 | 2825 | 291 | .127 | 2000 | 70630 | 87 | .0380 |
| 90 | 3178 | 279 | .122 | 2250 | 79460 | 83 | .0362 |
| 100 | 3531 | 267 | .117 | 2500 | 88290 | 80 | .0349 |
| 125 | 4414 | 246 | .107 | 3000 | 105900 | 75 | .0327 |
| 150 | 5297 | 230 | .100 | 4000 | 141300 | 67 | .0293 |
| 175 | 6180 | 217 | .0947 | 5000 | 176600 | 62 | .0271 |
| 200 | 7063 | 206 | .0900 | 6000 | 211900 | 58 | .0253 |
| 250 | 8829 | 190 | .0830 | 8000 | 282500 | 52 | .0227 |
| 300 | 10590 | 177 | .0773 | 10000 | 353100 | 48 | .0210 |
| 350 | 12360 | 167 | .0730 | 15000 | 529700 | 41 | .0179 |
| 400 | 14130 | 159 | .0694 | 20000 | 706300 | 37 | .0162 |
| 450 | 15890 | 152 | .0664 | 25000 | 882900 | 34 | .0148 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 404 02-07-1986]

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|---|---|---|---|---|---|---|---|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 500 | 17660 | 146 | .0637 | 30000 | 1059000 | 32 | .0140 |
| 600 | 21190 | 137 | .0598 | 40000 | 1413000 | 28 | .0122 |
| 700 | 24720 | 129 | .0563 | 50000 | 1766000 | 26 | .0114 |
| 800 | 28250 | 123 | .0537 | 70000 or more | 2472000 or more | 23 | .0100 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 405 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, solid particulate matter including lead and lead compounds in excess of the rate shown in Table 405(a).

Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 405(a)**

| Process Weight Per Hour | | Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process | | Process Weight Per Hour | | Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process | |
|---|---|---|---|---|---|---|---|
| Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour |
| 100 or less | 220 or less | 0.450 | 0.99 | 9000 | 19840 | 5.308 | 11.7 |
| 150 | 331 | 0.585 | 1.29 | 10000 | 22050 | 5.440 | 12.0 |
| 200 | 441 | 0.703 | 1.55 | 12500 | 27560 | 5.732 | 12.6 |
| 250 | 551 | 0.804 | 1.77 | 15000 | 33070 | 5.982 | 13.2 |
| 300 | 661 | 0.897 | 1.98 | 17500 | 38580 | 6.202 | 13.7 |
| 350 | 772 | 0.983 | 2.17 | 20000 | 44090 | 6.399 | 14.1 |
| 400 | 882 | 1.063 | 2.34 | 25000 | 55120 | 6.743 | 14.9 |
| 450 | 992 | 1.138 | 2.51 | 30000 | 66140 | 7.037 | 15.5 |
| 500 | 1102 | 1.209 | 2.67 | 35000 | 77160 | 7.296 | 16.1 |
| 600 | 1323 | 1.340 | 2.95 | 40000 | 88180 | 7.527 | 16.6 |

# FACILITY PERMIT TO OPERATE
# E.M.E. INC/ELECTRO MACHINE & ENGINEERING

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 405 02-07-1986]

| Process Weight Per Hour | | Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process | | Process Weight Per Hour | | Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process | |
|---|---|---|---|---|---|---|---|
| Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour |
| 700 | 1543 | 1.461 | 3.22 | 45000 | 99210 | 7.738 | 17.1 |
| 800 | 1764 | 1.573 | 3.47 | 50000 | 110200 | 7.931 | 17.5 |
| 900 | 1984 | 1.678 | 3.70 | 60000 | 132300 | 8.277 | 18.2 |
| 1000 | 2205 | 1.777 | 3.92 | 70000 | 154300 | 8.582 | 18.9 |
| 1250 | 2756 | 2.003 | 4.42 | 80000 | 176400 | 8.854 | 19.5 |
| 1500 | 3307 | 2.206 | 4.86 | 90000 | 198400 | 9.102 | 20.1 |
| 1750 | 3858 | 2.392 | 5.27 | 100000 | 220500 | 9.329 | 20.6 |
| 2000 | 4409 | 2.563 | 5.65 | 125000 | 275600 | 9.830 | 21.7 |
| 2250 | 4960 | 2.723 | 6.00 | 150000 | 330700 | 10.26 | 22.6 |
| 2500 | 5512 | 2.874 | 6.34 | 175000 | 385800 | 10.64 | 23.5 |
| 2750 | 6063 | 3.016 | 6.65 | 200000 | 440900 | 10.97 | 24.2 |
| 3000 | 6614 | 3.151 | 6.95 | 225000 | 496000 | 11.28 | 24.9 |
| 3250 | 7165 | 3.280 | 7.23 | 250000 | 551200 | 11.56 | 25.5 |
| 3600 | 7716 | 3.404 | 7.50 | 275000 | 606300 | 11.82 | 26.1 |
| 4000 | 8818 | 3.637 | 8.02 | 300000 | 661400 | 12.07 | 26.6 |
| 4500 | 9921 | 3.855 | 8.50 | 325000 | 716500 | 12.30 | 27.1 |
| 5000 | 11020 | 4.059 | 8.95 | 350000 | 771600 | 12.51 | 27.6 |
| 6000 | 13230 | 4.434 | 9.78 | 400000 | 881800 | 12.91 | 28.5 |
| 7000 | 15430 | 4.775 | 10.5 | 450000 | 992100 | 13.27 | 29.3 |
| 8000 | 17640 | 5.089 | 11.2 | 500000 or more | 1102000 or more | 13.60 | 30.0 |