



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 Copley Drive, Diamond Bar, CA 91765

Title Page	
Facility I.D.#:	045938
Revision #:	4
Date:	July 28, 2008

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## FACILITY PERMIT TO OPERATE

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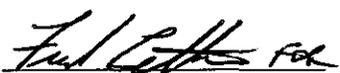
**E.M.E. INC/ELECTRO MACHINE & ENGINEERING  
431 E OAKS ST  
COMPTON, CA 90222**

### 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   
Mohsen Nazemi, P.E.  
Deputy Executive Officer  
Engineering & Compliance

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

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## 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  
COMPTON, CA 90222

MAILING ADDRESS: 431 E OAKS ST  
COMPTON, CA 90222

RESPONSIBLE OFFICIAL: STEVEN G. TURNBOW

TITLE: PRESIDENT, GENERAL MANAGER

TELEPHONE NUMBER: (310) 639-1621

CONTACT PERSON: STEVEN G. TURNBOW

TITLE: PRESIDENT, GENERAL MANAGER

TELEPHONE NUMBER: (310) 639-1621

TITLE V PERMIT ISSUED: July 28, 2008

TITLE V PERMIT EXPIRATION DATE: July 27, 2013

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
418872	F64040	SPRAY BOOTH PAINT AND SOLVENT
419001	F64046	SPRAY BOOTH PAINT AND SOLVENT
419000	F64044	SPRAY BOOTH PAINT AND SOLVENT
347714	F50023	SCRUBBER, OTHER VENTING S.S.
375276	F50021	TANK, CHROMIC ACID – ANNOZING
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
377773	F50024	TANK, SURFACE PREPARATION - OTHER ACIDS
377774	F54510	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)
377775	F54508	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)
377777	F54511	BAGHOUSE, AMBIENT TEMP (>500 SQ FT)
377778	F50028	TANK, SURFACE PREPARATION - OTHER ACIDS
377779	F50027	TANK, SURFACE PREPARATION - OTHER ACIDS
380559	F54509	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)
388830	F45325	I C E (50 – 500 HP) EM ELEC GEN-DIESEL
417562	F75180	I C E (50 – 500 HP) ELEC GEN-NAT GAS
454985		TANK, SURFACE PREPARATION - OTHER ACIDS

**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, 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]

#### 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:

CO: 2000 PPM, RULE 407  
PM: 0.1 gr/scf, RULE 409  
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. 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, 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 ANYONE 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-O1, 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-O1 AND P1-O2 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. F47657  
A/N 343360**

**Equipment Description:**

OVEN P1-O2, 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-O1 AND P1-O2 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. 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<sup>+6</sup>: 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<sup>+6</sup>: 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<sup>+6</sup>: RULE 1469.1

## 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 1/2" W. X 5'-6 1/2" 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 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.

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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

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### PERMIT TO OPERATE

Permit No. F50021  
A/N 375276

#### Equipment Description:

CHROMIC ACID ANODIZING LINE CONSISTING OF:

1. TANK NO. 55A, [NITRIC ACID/HYDROFLUORIC ACID] ETCH TANK, NITRIC AND HYDROFLOURIC ACIDS, 2'-3" W. X 15'-10" L. X 3'-7" H., UNHEATED.
2. TANK NO. 16C, TRI-ACID ETCH TANK, NITRIC, CHROMIC AND HYDROFLUORIC ACIDS, 1'-10" W. X 16'-0" L. X 4'-0" H., UNHEATED.
3. TANK NO. 51B2, PASSIVATE TYPE VI TANK, NITRIC ACID, 1'-8" W. X 16'-0" L. X 4'-0" H., UNHEATED.
4. TANK NO. 16A, ALKALINE ETCH TANK, SODIUM HYDROXIDE, 2'-0" W. X 16'-0" L. X 4'-0" H., STEAM HEATED.
5. TANK NO. 4, CHROMATE DEOXIDIZING TANK, NITRIC ACID, 2'-0" W. X 16'-0" L. X 4'-0" H., UNHEATED.
6. TANK NO. 6, CHROMIC ACID ANODIZING TANK, CHROMIC ACID, 3'-0" W. X 18'-0" L. X 3'-4" H., STEAM HEATED, WITH A 50 VOLT, 2,000 AMPERE RECTIFIER.
7. TANK NO. 11D, DILUTE CHROMATE SEALER TANK, SODIUM DICHROMATE AND CHROMIC ACID, 1'-10" W. X 16'-0" L. X 4'-0" H., STEAM HEATED.
8. TANK NO. 2, DEGREASING TANK, ALKALINE SOLUTION, 1'-8" W. X 16'-0" L. X 4'-0" H., STEAM HEATED.
9. TANK NO. 2C, ALKALINE CLEANER TANK, SODIUM METASILICATE, 1'-5" W. X 15'-6" L. X 4'-0" H., STEAM HEATED.
10. TANK NO. 51-2, PASSIVATE TYPE VIII, NITRIC ACID, 1'-8" W. X 16'-0" L. X 4'-0" H., 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]

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

3. 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]

4. THE CONCENTRATION OF CHEMICALS USED IN THE PROCESS TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK NO.	CHEMICAL	WEIGHT PERCENT
-----	-----	-----
2	BRULIN	34
2C	SODIUM METASILICATE	8
55A	NITRIC ACID	59.5
55A	HYDROFLUORIC ACID	5.5
16C	NITRIC ACID	10
16C	CHROMIC ACID	5
16C	HYDROFLUORIC ACID	1
51B2	NITRIC ACID	55.5
51-2	NITRIC ACID	65
16A	SODIUM HYDROXIDE	8.5
4	NITRIC ACID	21
6	CHROMIC ACID	5.2
11D	SODIUM CHROMATE	1
11D	CHROMIC ACID	1

[RULE 1401, 1469]

5. THE OWNER/OPERATOR SHALL RECORD ADDITION OF CHEMICALS TO THE TANKS PURSUANT TO CONDITION NO. 4.  
 [RULE 1401, 1469]

6. 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 1401, 1469]

7. TANKS CONTAINING NITRIC ACID SHALL COMPLY WITH THE VISIBLE EMISSION STANDARDS OF DISTRICT RULE 401.  
 [RULE 1469, 401]

8. TANK NOS. 55A, 16C, 51B2, AND 4 SHALL NOT BE HEATED.  
 [RULE 1401, 1469]

9. TANK NOS. 16C, 4, 6, AND 11D SHALL NOT BE SPARGED.  
 [RULE 1401, 1469]

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10. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD THE TEMPERATURE OF THE SOLUTIONS DURING OPERATION.  
[RULE 1401, 1469]

11. THE TEMPERATURE OF THE SOLUTIONS IN THE FOLLOWING TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK NO. -----	TEMPERATURE IN DEGREES FAHRENHEIT -----
2	175
2C	180
51-2	130
16A	160
6	98
11D	205

[RULE 1401, 1469]

12. CHROMIC ACID ANODIZING TANK NO. 6 SHALL BE EQUIPPED WITH A CONTINUOUS RECORDING, NON-RESETTABLE, TOTALIZING AMPERE-HOUR METER THAT OPERATES ON THE ELECTRICAL POWER LINES CONNECTED TO EACH TANK. A SEPARATE METER SHALL BE HARD-WIRED FOR THE RECTIFIER.  
[RULE 1401, 1469]

13. THE TOTAL AMPERE-HOURS OF PLATING CURRENT APPLIED TO THE CHROMIC ACID ANODIZING TANK NO. 6 SHALL NOT EXCEED 9,000,000 AMPERE-HOURS IN ANY ONE CALENDAR YEAR.  
[RULE 1401, 1469]

14. 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]

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

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. THE OWNER/OPERATOR SHALL PREPARE AN OPERATION AND MAINTENANCE (O&M) PLAN. WHICH SHALL INCORPORATE THE INSPECTION AND MAINTENANCE REQUIREMENTS IDENTIFIED IN THIS PERMIT AND SHALL INCLUDE THE FOLLOWING ELEMENTS:

- A) STANDARDIZED CHECKLIST TO DOCUMENT THE O&M OF THE SOURCE, THE ADD-ON AIR POLLUTION CONTROL DEVICE, AND THE PROCESS AND CONTROL SYSTEM MONITORING EQUIPMENT, AND

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- B) THE PROCEDURES TO BE FOLLOWED TO ENSURE THAT EQUIPMENT IS PROPERLY MAINTAINED.  
[RULE 1469]
18. THE OWNER/OPERATOR SHALL KEEP THE WRITTEN O&M PLAN ON RECORD, AFTER IT IS DEVELOPED, TO BE MADE AVAILABLE FOR INSPECTION UPON REQUEST BY AQMD PERSONNEL.  
[RULE 1469]
19. ANY CHANGES MADE TO THE O&M PLAN SHALL BE DOCUMENTED IN AN ADDENDUM TO THE PLAN AND SHALL BE SIGNED AND DATED BY THE OWNER/OPERATOR OR APPROPRIATE DESIGNEE.  
[RULE1469]
20. 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 1401, 1469]

### **Emissions And Requirements:**

21. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
CR<sup>+6</sup>: RULE 1469, # 1, SEE APPENDIX B FOR EMISSION LIMITS

## 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 1/2" THICK.
3. ONE HEPA FILTER, MICROGUARD 2000, MODEL NO. MC2000-601, 2'-0" W. X 2'-0" L. X 0'-11 1/2" 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 ABOVE TANKS, THE HEXAVALENT CHROMIUM EMISSIONS DISCHARGED TO THE ATMOSPHERE SHALL NOT EXCEED 0.01 MILLIGRAM PER DRY STANDARD CUBIC METER OF AIR (MG/DSCM).  
[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<sup>+6</sup>: RULE 1469, # 1, SEE APPENDIX B FOR EMISSION LIMITS

## 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]

### 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<sup>+6</sup>: 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-B2, 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<sup>+6</sup>: 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-B2, 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<sup>+6</sup>: 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, BINKS P3-B1, 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<sup>+6</sup>: RULE 1469.1

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

## PERMIT TO OPERATE

Permit No. F50024  
A/N 377773

### Equipment Description:

ALUMINUM ETCH LINE CONSISTING OF:

1. TANK NO. 2B, ALKALINE CLEAN TANK, SODIUM BORATE, 2'-0" W. X 15'-0" L. X 5'-0" H., STEAM HEATED.
2. TANK NO. 16, ALUMINUM ETCH TANK, SODIUM HYDROXIDE, 2'-0" W. X 15'-0" L. X 5'-0" H., STEAM HEATED.
3. TANK NO. 4B, DEOXIDIZER TANK, NITRIC ACID, 2'-0" W. X 15'-0" L. X 5'-0" H., UNHEATED.
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. TANK NO. 4B SHALL NOT BE HEATED.  
[RULE 1303(b)(2)-OFFSET, 1401]
4. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD AUTOMATICALLY (CONTINUOUS) OR MANUALLY (ONCE EACH DAY) THE TEMPERATURE OF THE SOLUTIONS DURING OPERATION.  
[RULE 1303(b)(2)-OFFSET, 1401]
5. THE TEMPERATURE OF OPERATION THE TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK	TEMPERATURE (DEGREES FAHRENHEIT)
-----	-----
2B	155
16	160

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

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

6. THE CONCENTRATION OF CHEMICALS IN THE TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK(S) -----	CHEMICAL -----	WEIGHT PERCENT -----
2B	SODIUM BORATE	4.5
16	SODIUM HYDROXIDE	8.5
4B	NITRIC ACID	21.0

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

7. THE OWNER/OPERATOR SHALL MAINTAIN RECORDS OF CHEMICAL ADDITION PURSUANT TO CONDITION NO. 6.  
[RULE 1303(b)(2)-OFFSET, 1401]
8. WITH THE EXCEPTION OF SODIUM HYDROXIDE AND NITRIC ACID, MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, AS AMENDED ON AUGUST 18, 2000.  
[RULE 1401]
9. 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(b)(2)-OFFSET, 1401]

## 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'-1 $\frac{3}{4}$ " 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

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

### PERMIT TO OPERATE

Permit No. F50028  
A/N 377778

#### Equipment Description:

##### PASSIVATION LINE CONSISTING OF:

1. TANK NO. 1, DEGREASING TANK, DW909-SODIUM BORATE, 1'-11" W. X 3'-4" L. X 4'-9" H., STEAM HEATED.
2. TANK NO. 53, ELECTROPOLISH TANK, PHOSPHORIC ACID AND SULFURIC ACID, 3'-0" W. X 8'-0" L. X 4'-6" H., STEAM HEATED, WITH A 6 VOLT, 800 AMPERE RECTIFIER.
3. TANK NO. 36, ELECTROCLEAM TANK, SODIUM BORATE, 2'-6" W. X 3'-0" L. X 4'-0" H., STEAM HEATED.
4. TANK NO. 38, HCL DESMUT TANK, HYDROCHLORIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
5. TANK NO. 51C, TYPE 7 PASSIVATE TANK, NITRIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED.
6. TANK NO. 51, TYPE 8 PASSIVATE TANK, NITRIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED.
7. TANK NO. 51A, TYPE 2 PASSIVATE TANK, NITRIC ACID AND SODIUM DICHROMATE, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED.
8. TANK NO. 51B, TYPE 6 PASSIVATE TANK, NITRIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
9. TANK NO. 55, NITRIC/HYDROFLUORIC ACID TANK, NITRIC ACID AND HYDROFLUORIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
10. TANK NO. 44, NITAL ETCH TANK, HYDROCHLORIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
11. TANK NO. 42, ALKALINE CLEANER TANK, SODIUM METASILICATE, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED.
12. TANK NO. 40, NITAL ETCH TANK, NITRIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
13. TANK NO. 56, CHROMATE RINSE, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED
14. ASSOCIATED RINSE TANKS.

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

**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. TANK NOS. 38, 51B, 55, 44 AND 40 SHALL NOT BE HEATED.  
 [RULE 1303(b)(2)-OFFSET, 1401]

4. 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]

5. THE TEMPERATURE OF OPERATION THE TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK(S)	TEMPERATURE (DEGREES FAHRENHEIT)
1	175
53, 56	160
36, 42	190
51C, 51	140
51A	130

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

6. THE CONCENTRATION OF CHEMICALS USED IN TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK(S)	CHEMICAL	WEIGHT PERCENT
1	SODIUM BORATE	21.5
36	SODIUM BORATE	7.2
38	HYDROCHLORIC ACID	28.3
44	HYDROCHLORIC ACID	8
53	PHOSPHORIC ACID	74
53	SULFURIC ACID	4.5
51, 51C	NITRIC ACID	30.5
51A	NITRIC ACID	26.2
51A	SODIUM DICHROMATE	2.7
51B	NITRIC ACID	47
55	NITRIC ACID	59.5
55	HYDROFLUORIC ACID	5.5
56	DICHROMATE ACID	6.5
42	SODIUM METASILICATE	6
40	NITRIC ACID	7.5

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

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

7. THE OWNER/OPERATOR SHALL MAINTAIN RECORDS OF EACH ADDITION OF CHEMICALS PURSUANT TO CONDITION NO. 6.  
[RULE 1303(b)(2)-OFFSET, 1401]
8. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, AS AMENDED ON AUGUST 18, 2000, EXCEPT FOR THE CHEMICALS LISTED IN CONDITION NO. 6.  
[RULE 1401]
9. 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 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]
10. 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. F50027  
A/N 377779

#### Equipment Description:

SULFURIC ACID ANODIZING LINE CONSISTING OF:

1. TANK NO. 2A, ALKALINE CLEANER TANK, SODIUM BORATE, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
2. TANK NO. 16B, ALKALINE ETCH TANK, SODIUM HYDROXIDE, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
3. TANK NO. 4A, DEOXIDIZER TANK, NITRIC ACID, 2'-0" W. X 16'-0" L. X 5'-0" H., UNHEATED.
4. TANK NO. 7A, SULFURIC/BORIC ACID ANODIZING TANK, SULFURIC AND BORIC ACIDS, 3'-3" W. X 16'-0" L. X 5'-0" H., UNHEATED, WITH A 6 VOLT, 2000 AMPERE RECTIFIER.
5. TANK NO. 7, SULFURIC ACID ANODIZING TANK, SULFURIC ACID, 3'-10" W. X 16'-0" L. X 5'-0" H., UNHEATED, WITH A 6 VOLT, 2000 AMPERE RECTIFIER.
6. TANK NO. 15A, ANODINE 1500 TANK, CHROMATE SOLUTION, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
7. TANK NO. 15, CHEM FILM TANK, IRRIDITE, 2'-0" W. X 16'-0" L. X 5'-0" H., UNHEATED.
8. TANK NO. 11B, SODIUM DICHROMATE SEALER TANK, SODIUM DICHROMATE, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
9. TANK NO. 11A, DILUTE CHROMATE SEALER TANK, SODIUM DICHROMATE, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
10. TANK NO. 9B, ALODINE 1200 TANK/RINSE TANK, CHROMATE SOLUTION, 2'-0" W. X 16'-0" L. X 5'-0" H., UNHEATED.
11. TANK NO. C1, NICKEL ACETATE SEALER TANK, NICKEL ACETATE, 1'-6" W. X 3'-2" L. X 3'-6" H., STEAM HEATED.
12. TANK NO. C2, DILUTE SODIUM DICHROMATE TANK, SODIUM DICHROMATE AND POTASSIUM, 1'-6" W. X 3'-2" L. X 3'-6" H., STEAM HEATED.
13. TANK NO. C3, SODIUM DICHROMATE TANK, SODIUM DICHROMATE, 1'-6" W. X 3'-2" L. X 3'-6" H., UNHEATED.
14. TANK NO. C4, MAGNESIUM CLEANER TANK, DICHROMIC ACID, 1'-6" W. X 3'-2" L. X 3'-6" H., STEAM HEATED.

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15. TANK NO. C5, HYDROFLUORIC ACID TANK, HYDROFLUORIC ACID, 1'-6" W. X 3'-2" L. X 3'-6" H., UNHEATED.
16. TANK NO. C9, SODIUM DICHROMATE TANK, SODIUM DICHROMATE, 2'-2" W. X 3'-10" L. X 3'-0" H., STEAM HEATED.
17. 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. THE CONCENTRATION OF CHEMICALS USED IN THE PROCESS TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK NO. -----	CHEMICAL -----	WEIGHT PERCENT -----
2A	SODIUM BORATE	4.5
16B	SODIUM HYDROXIDE	8.5
4A	NITRIC ACID	21
7A	SULFURIC ACID	5.2
7A	BORIC ACID	1.2
7	SULFURIC ACID	20.5
15A	CHROMATE MIXTURE	1.5
15	CHROMATE MIXTURE	1
11B	CHROMATE SOLUTION	7
11A	SODIUM DICHROMATE	0.02
C1	NICKEL ACETATE	1
C2, C3	SODIUM CHROMATE	7
C2	POTASSIUM	1
C4	DICHROMIC ACID	8.5
C5	HYDROFLUORIC ACID	21.5
C9	SODIUM DICHROMATE	15
9B	CHROMATE MIXTURE	2.3

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

4. THE OWNER/OPERATOR SHALL RECORD ADDITION OF CHEMICALS TO THE TANKS PURSUANT TO CONDITION NO. 3.  
 [RULE 1303(b)(2)-OFFSET, 1401]
5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, AS AMENDED ON AUGUST 18, 2000, EXCEPT FOR THE

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

CHEMICALS LISTED IN CONDITION NO. 3.  
 [RULE 1401]

6. TANK 4A SHALL BE COVERED WHEN NOT IN USE SO AS TO ENSURE THAT THE SURFACE OF THE LIQUID IS NOT EXPOSED TO THE ATMOSPHERE.  
 [RULE 1303(b)(2)-OFFSET, 1401]
7. TANKS CONTAINING NITRIC ACID SHALL COMPLY WITH THE VISIBLE EMISSION STANDARDS OF DISTRICT RULE 401.  
 [RULE 1401, 401]
8. TANK NOS. 4A, 7, 7A, 15, 9B, C3 AND C5 SHALL NOT BE HEATED.  
 [RULE 1303(b)(2)-OFFSET, 1401]
9. TANK NOS. 15, 11A, 11B, C2, C3, C4 AND C9 SHALL NOT BE SPARGED.  
 [RULE 1303(b)(2)-OFFSET, 1401]
10. 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]
11. THE TEMPERATURE OF THE SOLUTIONS IN THE TANKS SHALL NOT EXCEED THE FOLLOWING:
 

TANK(S) NO.	TEMPERATURE IN DEGREES FAHRENHEIT
2A	155
11B	212
11A	205
C1	210
C2	205
C4	190
C9	200
16B, 15A	160

[RULE 1303(b)(2)-OFFSET, 1401]
12. 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]
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, 1303(b)(2)-OFFSET, 1401]

## 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

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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.F45325  
A/N 388830**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, DIESEL, JOHN DEERE, MODEL NO. 4045T, 4-CYLINDER, 100 B.H.P, TURBOCHARGED, DRIVING A 75 KW EMERGENCY ELECTRIC GENERATOR.

**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 ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY CALENDAR YEAR.  
[RULE 1110.2, 1304(a)(4)]
4. THIS ENGINE SHALL BE OPERATED LESS THAN 50 HOURS IN ANY CALENDAR YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1470]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304(a)(4), 1470]
6. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION AND THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1110.2, 1304(a)(4), 1470]
7. IN ADDITION TO MAINTENANCE AND TESTING OF THIS ENGINE, THIS ENGINE SHALL ONLY OPERATE DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCY DECLARED BY THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR.  
[RULE 1304(a)(4), 1470]

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### **Emissions and Requirements:**

8. 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 1470

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### PERMIT TO OPERATE

**Permit No. F75180  
A/N 417562**

#### **Equipment Description:**

COGENERATION SYSTEM CONSISTING OF:

1. INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL NO. F11GSI, NATURAL GAS FUELED, RICH BURN, FOUR CYCLE, SIX CYLINDERS, TURBOCHARGED, AFTERCOOLED, 240 BHP WITH A FUEL/AIR RATIO CONTROLLER, MIRATECH, MODEL NO. MEC-2001-1LLP, DRIVING A 178 KW ELECTRIC GENERATOR.
2. A NON-SELECTIVE CATALYTIC CONVERTER, MIRATECH, MODEL NO. MBA-13-05-C2.
3. WASTE HEAT RECOVERY SYSTEM

#### **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 ENGINE SHALL ONLY USE NATURAL GAS AS FUEL.  
[RULE 1303(a)(1)-BACT]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1303(a)(1)-BACT]
5. AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER SHALL BE INSTALLED, MAINTAINED AND KEPT IN PROPER OPERATING CONDITION AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.  
[RULE 1303(a)(1)-BACT]
6. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED 0.3 PERCENT.

THE OPERATOR SHALL OPERATE AND MAINTAIN AN OXYGEN MEASURING AND RECORDING

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

SYSTEM TO CONTINUOUSLY MEASURE AND RECORD THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE OXYGEN INDICATING AND RECORDING SYSTEM SHALL BE IN OPERATION WHENEVER THE ENGINE IS IN OPERATION.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN AN OXYGEN CONCENTRATION OF MORE THAN 0.3 PERCENT OCCURS DURING OPERATION OF THE ENGINE. THE OPERATOR SHALL REVIEW THE RECORDS OF THE OXYGEN MEASUREMENTS ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

WHENEVER A DEVIATION OCCURS, THE OPERATOR SHALL INSPECT THIS EQUIPMENT TO IDENTIFY THE CAUSE OF SUCH A DEVIATION, TAKE IMMEDIATE CORRECTIVE ACTION TO MAINTAIN THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE AT OR BELOW 0.3 PERCENT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT. THE REPORT SHALL INCLUDE THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.  
[RULE 1303(a)(1)-BACT, 40CFR Part 64]

7. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET AND OUTLET OF THE CATALYST. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED.  
[RULE 1303(a)(1)-BACT]
8. THE OPERATOR SHALL MAINTAIN A MONTHLY ENGINE OPERATING LOG THAT INDICATES:
  - A. TOTAL HOURS OF OPERATION.
  - B. TYPE OF FUEL USED.

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- C. FUEL CONSUMPTION (CUBIC FEET OF GAS).  
D. CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.  
[RULE 1110.2]
9. THE VOC EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED USING THE EMISSION FACTOR OF 0.0793 LBS/HR (0.15 GRAMS/BHP-HR).  
[RULE 1303(b)(2)-OFFSET]
10. THE ENGINE COMBUSTION EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS IN PARTS PER MILLION BY VOLUME (PPMV) ON A DRY BASIS (CORRECTED TO 15 PERCENT OXYGEN) EXCEPT DURING START-UPS AND SHUTDOWNS, WHICH SHALL NOT EXCEED 10 MINUTES EACH.
- |                                  |                             |
|----------------------------------|-----------------------------|
| VOLATILE ORGANIC COMPOUNDS (VOC) | 29 PPMV (0.15 GRAMS/BHP-HR) |
| NITROGEN OXIDES (NOX)            | 10 PPMV (0.15 GRAMS/BHP-HR) |
| CARBON MONOXIDE (CO)             | 68 PPMV (0.60 GRAMS/BHP-HR) |
- [RULE 1303(a)(1)-BACT]
11. THE OPERATOR SHALL REPLACE THE THREE-WAY CATALYST(S) EVERY YEAR UNLESS THE OPERATOR CAN DEMONSTRATE TO THE SATISFACTION OF THE EXECUTIVE OFFICER THAT THE ENGINES CAN CONTINUE TO REMAIN IN COMPLIANCE WITH THE EMISSION LIMITS SPECIFIED IN CONDITION NO. 10.  
[RULE 1303(a)(1)-BACT]
12. AT LEAST ONCE EVERY THREE YEARS, THE OPERATOR OF THIS EQUIPMENT SHALL CONDUCT A SOURCE TEST TO DETERMINE EMISSIONS OF NOX, VOC AND CO IN PPMV @ 15% O<sub>2</sub> AT THE OUTLET OF THE NON-SELECTIVE CATALYTIC CONVERTER.  
[RULE 1110.2, 1303(a)(1)-BACT]

### **Emissions and Requirements:**

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- |      |  |
|------|--|
| PM:  | RULE 404, SEE APPENDIX B FOR EMISSION LIMITS |
| VOC: | 250 PPMV, RULE 1110.2                        |
| VOC: | 29 PPMV, RULE 1303(a)(1)-BACT                |
| NOx: | 45 PPMV, RULE 1110.2                         |
| NOx: | 10 PPMV, RULE 1303(a)(1)-BACT                |
| CO:  | 2000 PPMV, RULE 1110.2                       |
| CO:  | 68 PPMV, RULE 1303(a)(1)-BACT                |

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

### PERMIT TO CONSTRUCT

A/N 454985  
Granted as of  
September 22, 2006

#### Equipment Description:

SULFURIC ACID ANODIZING LINE CONSISTING OF:

1. TANK NO. 2A, ALKALINE CLEANING, SODIUM BORATE, HEATED, WITH MECHANICAL AGITATION.
2. TANK NO. 16B, ALKALINE ETCHING, SODIUM HYDROXIDE, HEATED, WITH MECHANICAL AGITATION.
3. TANK NO. 4A, DEOXIDIZING, NITRIC ACID, IRON OXIDE BUFFER, UNHEATED, WITH AIR SPARGING.
4. TANK NO. 17, RINSING, SODIUM BICARBONATE, UNHEATED, WITH AIR SPARGING.
5. TANK NO. 7A, ANODIZING, SULFURIC ACID, BORIC ACID, RECTIFIED, UNHEATED, WITH AIR SPARGING.
6. TANK NO. 7, ANODIZING, SULFURIC ACID, RECTIFIED, UNHEATED, WITH AIR SPARGING.
7. TANK NO. 15A, CHEM FILM, ALODINE/IRRIDITE(CHROMATED SOLUTIONS), HEATED, WITH MECHANICAL AGITATION.
8. TANK NO. 15, CHEM FILM, ALODINE/IRRIDITE(CHROMATED SOLUTIONS), UNHEATED, WITH MECHANICAL AGITATION.
9. TANK NO. 11B, SEALING, SODIUM DICHROMATE, HEATED, WITH MECHANICAL AGITATION.
10. TANK NO. 11A, SEALING, DILUTE SODIUM DICHROMATE, HEATED, WITH MECHANICAL AGITATION.
11. TANK NO. C1, SEALING, NICKEL ACETATE, HEATED, WITH MECHANICAL AGITATION.
12. TANK NO. C2, SEALING, POTASSIUM DICHROMATE, UNHEATED, WITH MECHANICAL AGITATION.
13. TANK NO. C3, SEALING, SODIUM DICHROMATE, UNHEATED, WITH MECHANICAL AGITATION.
14. TANK NO. C4, CLEANING, SODIUM BORATE, HEATED, WITH MECHANICAL AGITATION.
15. TANK NO. C5, CLEANING/PICKLING, HYDROFLUORIC ACID, UNHEATED, WITH MECHANICAL AGITATION.
16. TANK NO. C9, PICKLING, SODIUM DICHROMATE, HEATED, WITH MECHANICAL AGITATION.
17. ASSOCIATED RINSE TANKS.

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**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 PERMIT IS SUBJECT TO THE FOLLOWING REQUIREMENTS:
  - A. 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.
  - B. TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
  - C. 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]
4. WATER RINSE TANKS THAT CONTAIN CHROMATES, DICHROMATES, OR ANY OTHER COMPOUNDS CONTAINING HEXAVALENT CHROMIUM, SHALL NOT BE AIR SPARGED.  
[RULE 1401]
5. 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)
4A	NITRIC ACID	22.0	N/A	AMBIENT	48
7A	SULFURIC ACID	5.5	8,000,000	AMBIENT	78
7	SULFURIC ACID	21	8,000,000	AMBIENT	92
C5	HYDROFLUORIC ACID	22	N/A	AMBIENT	N/A

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

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

6. TANK NOS. 4A AND C5 SHALL BE COVERED WHEN NOT IN USE.  
[RULE 401, 1401]
7. TANKS CONTAINING NITRIC ACID AND HYDROFLUORIC ACID SHALL COMPLY WITH THE VISIBLE EMISSION STANDARDS OF RULE 401.  
[RULE 401]
8. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, WITH AN EFFECTIVE DATE OF MARCH 4, 2005 OR EARLIER, EXCEPT THOSE SPECIFICALLY LISTED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.  
[RULE 1401]
9. 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:
  - A. ANODIZING TANK NO. 7A
  - B. ANODIZING TANK NO. 7[RULE 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. 5 OF THIS PERMIT, AS DETERMINED EACH MONTH BY CALCULATION FROM REPLENISHMENT RECORDS OR LABORATORY QUANTITATIVE ANALYSIS.
  - C) 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

### 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:**

1. 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

## **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 statues 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]
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]

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

### SECTION E: ADMINISTRATIVE CONDITIONS

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 (SO<sub>2</sub>) 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 (CO<sub>2</sub>) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]
  - f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O<sub>2</sub>) 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)

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

### **SECTION E: ADMINISTRATIVE CONDITIONS**

- 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.
  - 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  
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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)]

#### **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.

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

### SECTION K: TITLE V Administration

- (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)]

- 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)]

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

### SECTION K: TITLE V Administration

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)]
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

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

**SECTION K: TITLE V Administration**

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<sup>1</sup> constitutes an affirmative defense to an action brought for non-compliance 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]

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<sup>1</sup> "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.
  - (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.

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

### SECTION K: TITLE V Administration

- (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;
  - (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)]

**FACILITY PERMIT TO OPERATE  
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SECTION K: TITLE V Administration

**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 Title V 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 1110.2	2-1-2008	Non federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-13-2007	Non 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	1-7-2005	Non federally enforceable
RULE 1146.2	1-9-1998	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	2-1-2008	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	8-18-2000	Non federally enforceable
RULE 1469, #1	10-9-1998	Federally enforceable
RULE 1469.1	3-4-2005	Non federally enforceable
RULE 1470	6-1-2007	Non federally enforceable
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 3003	11-14-1997	Federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable

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

### SECTION K: TITLE V Administration

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	3-16-2001	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	6-9-2006	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
40CFR Part 64	10-22-1997	Federally enforceable



**FACILITY PERMIT TO OPERATE  
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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 11-8-1996]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating 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, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, 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.

**TABLE OF STANDARDS**

**VOC LIMITS**

**Grams of VOC Per Liter of Coating,  
 Less Water And Less Exempt Compounds**

<b>COATING</b>	<b>Limit*</b>	<b>Effective Date of Adoption</b>	<b>Effective 1/1/1998</b>	<b>Effective 1/1/1999</b>	<b>Effective 7/1/2001</b>	<b>Effective 1/1/2005</b>	<b>Effective 7/1/2008</b>
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250					100	
Graphic Arts (Sign) Coatings	500						50
Industrial Maintenance							

## FACILITY PERMIT TO OPERATE

### E.M.E. INC/ELECTRO MACHINE & ENGINEERING

#### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
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

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

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1113 11-8-1996]**

**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 1113 7-13-2007]**

- (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  
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**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1113 7-13-2007]**

**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		
Nonflat High Gloss	250		150				50	

## FACILITY PERMIT TO OPERATE

### E.M.E. INC/ELECTRO MACHINE & ENGINEERING

#### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-13-2007]

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
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	400					100		
Concrete/Masonry Sealers								
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.

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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1113 7-13-2007]**

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

**Grams of VOC Per Liter of Material**

COATING	Limit
Low-Solids Coating	120

**FACILITY PERMIT TO OPERATE  
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**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1124 9-21-2001]**

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:

<b>VOC Limit</b>			
<b>Grams of VOC per Liter, Less Water and Less Exempt Compounds</b>			
<b>Primers</b>	<b>Current VOC Limit</b>	<b>VOC Limit Effective 1-1-03</b>	<b>VOC Limit Effective 1-1-05</b>
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
<b>Adhesive Bonding Primer</b>			
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
<b>Adhesive Bonding Primer</b>			
Long Term	250	250	250
Short Term	250	250	250

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**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1124 9-21-2001]**

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 9-21-2001]**

<b>Adhesives</b>	<b>Current VOC Limit</b>
Non-Structural Adhesive	250
Structural Adhesive	
Autoclavable	50
Non-Autoclavable	850
Space Vehicle Adhesive	800
Fuel Tank Adhesive	620

<b>Sealants</b>	<b>Current VOC Limit</b>	<b>VOC Limit Effective 3-01-02</b>
Fastener Sealant	675	675
Extrudable, Rollable or Brushable Sealant	600	280
Other	600	600

<b>Maskants</b>	<b>Current VOC Limit</b>
For Chemical Processing	250
For Chemical Milling	
Type I	250
Type II	160
Photolithographic	850
Touch-up, Line Sealer Maskants	750

<b>Lubricants</b>	<b>Current VOC Limit</b>
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 9-21-2001]**

<b>VOC LIMIT</b>	
<b>Grams of VOC per Liter of Material</b>	
<b>Cleaning Solvents and Strippers</b>	<b>Current VOC Limit</b>
Cleaning Solvents	200 g/L or 45 mm Hg VOC Composite Partial Pressure
Strippers	300 g/L or 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**  
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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1140 2-1-1980]**

- (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).

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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1140 8-2-1985]**

- (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).

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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 11-7-2003]**

(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:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	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	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)

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**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1171 11-7-2003]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)

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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 11-7-2003]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)

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

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 2-1-2008]**

(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:

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2008*</b>	<b>EFFECTIVE 1/1/2009</b>
<b>SOLVENT CLEANING ACTIVITY</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(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 2-1-2008]**

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2008*</b>	<b>EFFECTIVE 1/1/2009</b>
<b>SOLVENT CLEANING ACTIVITY (cont.)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(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**  
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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 2-1-2008]**

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2008*</b>	<b>EFFECTIVE 1/1/2009</b>
<b>SOLVENT CLEANING ACTIVITY (cont.)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(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 1469, #1 10-9-1998]**

##### Chromic acid anodizing vented to packed bed scrubber and mesh pads

Rule 1469 incorporates and implements California Air Resources Board Airborne Toxics Control Measure (Chrome Plating ATCM) requirements for control of hexavalent chromium emissions from chrome plating operations. Furthermore, the Chrome Plating ATCM, which subsumes the Federal NESHAP requirements of 40CFR63 Subpart N-National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, has been accepted by EPA to be equivalent to the NESHAP. Therefore, the following permit conditions are federally enforceable.

1. The emissions of hexavalent chromium from the chromic acid anodizing tank (s) shall not exceed 0.01 milligrams per dry standard cubic meter, measured at the air pollution control system outlet.
2. The chromic acid anodizing tank (s) shall be equipped with (a) continuous recording, non-resettable ampere-hour meter (s) that operates on the electrical power line (s) connected to each tank. A separate meter shall be hard-wired for each rectifier.
3. The owner/operator shall inspect and maintain the ampere-hour meter (s) according to the manufacturer's recommendations.
4. The owner/operator shall record the actual cumulative rectifier ampere-hour usage of each chromic acid anodizing tank used during each month, and the total capacity used to date for each calendar year.
5. A mechanical gauge shall be installed and maintained so as to indicate, in inches water column, the inlet velocity pressure of the packed bed scrubber. The inlet velocity pressure shall be maintained within plus or minus 10 percent of the value established during the performance test which demonstrated compliance with the emission limitation. Please refer to Sections D and/or H of this permit for specific static pressure differential requirements or limits.
6. The owner/operator shall maintain a weekly record of the inlet velocity pressure, in inches water column, of the packed bed scrubber. This record shall be kept and maintained on site.
7. Mechanical gauges shall be installed and maintained so as to indicate, in inches water column, the static pressure differential across each stage of the packed bed scrubber and across the composite mesh pad. The static pressure differentials across the

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### **E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

#### **APPENDIX B: RULE EMISSION LIMITS** **[RULE 1469, #1 10-9-1998]**

packed bed scrubber and across the composite mesh pad shall be maintained within plus or minus 1 inch of water column of the value established during the performance test which demonstrated compliance with the emission limitation. Please refer to Sections D and/or H of this permit for specific static pressure differential requirements or limits.

8. The owner/operator shall maintain a weekly record of the static pressure differential, in inches water column, across the packed bed scrubber and across the composite mesh pad. This record shall be kept and maintained on site.
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.
10. The owner/operator the mechanical gauges shall be located so that they can be easily viewed and are in clear sight of the operation or maintenance personnel. The operator shall comply with the inspection and maintenance requirements for the mesh pads and packed bed scrubber and pitot tube listed below:
  - A. Quarterly visual inspection of the device to ensure there is proper drainage, no unusual chromic acid buildup on the mesh pads or packed beds, 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 closest to the fan to ensure there is no breakthrough of chromic acid mist.
  - C. Quarterly visual inspection of the ductwork from the tank (s) to the control device to ensure there are no leaks.
  - D. Quarterly backflush the pitot tube with water or remove pitot tube from the duct and rinse with fresh water, replace in the duct and rotate 180 degrees to ensure that the same zero reading is obtained. Check pitot tube ends for damage and replace if cracked or fatigued.
  - E. Perform washdown of the composite mesh pads in accordance with the manufacturer's recommendations.
  - F. Add fresh makeup water to the packed-bed whenever makeup is needed.

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

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1469, #1 10-9-1998]**

11. The owner/operator shall maintain inspection and maintenance records for the ampere-hour meter (s), mesh pads, and 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 ampere-hour meter(s), mesh pads, or packed bed scrubber, pitot tube, and
  - E. Any actions taken to correct deficiencies found during the inspection.
12. The owner/operator shall maintain records of excess emissions including, but not limited to, records of any exceedances of the emission limitation and/or 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.
13. The owner/operator shall maintain all documentation supporting the notifications and reports required by District Rule 1469.
14. The owner/operator shall report breakdowns as required by District Rule 430.
15. The owner/operator shall maintain records of the occurrence, duration, and causes (if known) and action taken on each breakdown.
16. After the effective date of District Rule 1469, no person may construct or modify a source such that it becomes a source subject to District Rule 1469 without submitting a notification of construction or modification to the AQMD and receiving approval in advance to construct or modify the source. The notification of construction or modification shall contain the information identified in Appendix 4 of District Rule 1469.
17. The owner/operator shall prepare an operation and maintenance plan.

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**[RULE 1469, #1 10-9-1998]**

18. The operation and maintenance plan shall incorporate the inspection and maintenance requirements identified in this permit and shall include the following elements:
  - A. A standardized checklist to document the operation and maintenance of the source, the add-on air pollution control device, and the process and control system monitoring equipment, and
  - B. The procedures to be followed to ensure that equipment is properly maintained.
19. The owner/operator shall keep the written operation and maintenance plan on record, after it is developed, to be made available for inspection upon request by AQMD personnel.
20. Any changes made to the operation and maintenance plan shall be documented in an addendum to the plan and signed by the owner/operator or appropriate designee.
21. The owner/operator shall annually complete, by February 1 of each year, an ongoing compliance status report for the proceeding calendar year. The report shall contain the information identified in Appendix 3 of District Rule 1469. The report shall be made available to AQMD personnel upon request.
22. 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 all records and reports required by Condition Nos. 3 to 21, inclusive.

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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 404 2-7-1986]**

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
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402

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**[RULE 404 2-7-1986]**

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
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
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

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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 405 2-7-1986]**

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
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

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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 405 2-7-1986]**

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
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