



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

June 27, 2013

Mr. Gerardo Rios  
Chief – Permits Office  
U. S. EPA, Region IX  
75 Hawthorne Street, Air 3  
San Francisco, CA 94105

Dear Mr. Rios:

Weber Metals, Inc., ID 10966, has proposed to revise their Title V permit by installing one titanium preheat furnace; modifying three furnaces, a process line, and a scrubber; and changing condition of four furnaces. This is an aluminum-titanium part forging facility (NAICS 332112) located at 16706 Garfield Ave, Paramount, CA 90723. This proposed permit revision under Application No. 544946 is considered as a “deminimis significant permit revision” to their Title V permit. Attached for your review are the permit evaluation and draft permit for the proposed permit revision. With your receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period will begin on June 27, 2013.

If you have any questions or need additional information regarding the proposed permit revision, please call Thai Tran at (909) 396-2562.

Very truly yours,

A handwritten signature in blue ink that reads "Mohan Balagopalan".

Mohan Balagopalan  
Senior Manager  
Chemical, Mechanical, and Ports Permitting

MB:TT  
544946 EPA Letter

Attachments

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**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  
 WEBER METALS INC.**

**PERMITTED EQUIPMENT LIST**

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

<b>Application number</b>	<b>Permit to Operate number</b>	<b>Equipment description</b>
159525	D60661	SCRUBBER, OTHER VENTING S.S.
544936		TANK, OTHER AQUEOUS SOLUTION
418058	D79100	TANK, OTHER AQUEOUS SOLUTION
544938		SCRUBBER, OTHER VENTING S.S.
544942		A & A PRE-HEAT FURNACE
544943		LINDBERG CHAIN PRE-HEAT FURNACE
544944		NO. 2 CAR BOTTOM PRE-HEAT FURNACE
544945		AOV PEDESTAL PRE-HEAT FURNACE
544934		THORPE TECHNOLOGY PRE-HEAT FURNACE (OVE-339)
544939		NO. 1 BOX PRE-HEAT FURNACE
544940		NO. 2 PRE-HEAT FURNACE
544941		ROTARY HEARTH PRE-HEAT FURNACE
437120	F73290	SLUDGE DRYER
C38230	M39199	SCRUBBER, OTHER VENTING S.S.
510789	G11858	STORAGE TANK, LPG

**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  
WEBER METALS INC.**

**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 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 SUBPARAGRAPH (A) OF THIS CONDITION.  
[RULE 401]

## FACILITY PERMIT TO OPERATE WEBER METALS INC.

### PERMIT TO OPERATE

Permit No. D60661  
A/N 159525

#### Equipment Description:

##### AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, L. W. LEFORD, CROSS-FLOW PACKED TYPE, MODEL NO. 546WZ-ZX, 12'-6" W. x 13'-6" L. x 10'-0" H., WITH TWIN-STAGE PACKINGS, AND FOUR 1½-H.P. RECIRCULATION PUMPS.
2. EXHAUST SYSTEM WITH A 60-H.P. BLOWER VENTING TWO ACID TANKS OF AN ETCHING LINE AND A SLUDGE DRYER.
3. VENTURI SCRUBBER, 2" DIA. x 36" L., WITH A CYCLONE SEPARATOR, 10" DIA. x 26" H.
4. EXHAUST SYSTEM WITH A 1-HP BLOWER VENTING A SLUDGE DRYER.

#### 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. THE pH LEVEL OF THE RECIRCULATING WATER SHALL NOT BE LESS THAN 2.  
[RULE 1303 (b) (2)-OFFSETS]
4. NOT LESS THAN 3 GALLONS PER MINUTE OF WATER AT A MINIMUM PRESSURE OF 35 PSIG SHALL BE SUPPLIED TO THE VENTURI SCRUBBER WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.  
[RULE 1303 (b) (2)-OFFSETS]
5. METERS INDICATING GPM AND PSIG SHALL BE INSTALLED IN THE LIQUID SUPPLY LINE TO THE VENTURI SCRUBBER.  
[RULE 1303 (b) (2)-OFFSETS; RULE 3004(a)(4)-PERIODIC MONITORING]

## FACILITY PERMIT TO OPERATE WEBER METALS INC.

### Periodic Monitoring:

6. THE OPERATOR SHALL DETERMINE AND RECORD THE pH OF THE RECIRCULATING WATER ONCE EVERY DAY.  
[RULE 3004(a)(4)-PERIODIC MONITORING]
7. THE OPERATOR SHALL DETERMINE AND RECORD THE FLOW RATE AND PRESSURE OF WATER TO THE VETURI SCRUBBER ONCE EVERY DAY.  
[RULE 3004(a)(4)-PERIODIC MONITORING]

### 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

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No.  
A/N 544936**

**Equipment Description:**

**AQUEOUS SOLUTION LINE CONSISTING OF:**

1. ETCHING TANK, NO. 6, NITRIC ACID, 8'-4" L. x 3'-10" W. x 4'-4" H., UNHEATED.
2. NITRIC ACID RINSE TANK, NO. 5, 8'-4" L. x 3'-10" W. x 4'-4" H, UNHEATED.
3. ETCHING TANK NO. 8, SODIUM HYDROXIDE, 8'-4" L. x 3'-10" W. x 4'-4" H., STEAM HEATED.
4. CAUSTIC RINSE TANK, NO. 7, 8'-4" L. x 3'-10" W. x 4'-4" H, UNHEATED.
5. ETCHING TANK, NO. 4, NITRIC ACID, 8'-4" L. x 3'-10" W. x 4'-4" H., UNHEATED.
6. NITRIC ACID RINSE TANK, NO. 3, 8'-4" L. x 3'-10" W. x 4'-4" H, UNHEATED.
7. RINSE TANK, NO. 2, 8'-4" L. x 3'-10" W. x 4'-4" H, UNHEATED.
8. RINSE TANK, NO. 1, 8'-4" L. x 3'-10" W. x 4'-4" H, HEATED.

ALL TANKS, EXCEPT TANKS NO. 2 AND 7, ARE VENTED TO THE SCRUBBER UNDER PERMIT APPLICATION 544938

**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. THE FOLLOWING ETCHING TANKS SHALL NOT BE HEATED:

ETCHING TANK NO. 4  
ETCHING TANK NO. 6

[RULE 1303 (b) (2)-OFFSETS]

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No. D79100  
A/N 418058**

**Equipment Description:**

**SURFACE PREPARATION AND METAL CLEANING SYSTEM CONSISTING OF:**

1. TANKS 1 AND 2, HEATED WATER, 5'-0" W. x 20'-0" L. x 6'-0" D. EACH.
2. TANKS 3 AND 4, UNHEATED WATER, 5'-0" W. x 20'-0" L. x 6'-0" D. EACH.
3. TANK 5, UNHEATED NITRIC ACID, 5'-0" W. x 20'-0" L. x 6'-0" D.
4. TANKS 6 AND 7, UNHEATED WATER, 5'-0" W. x 20'-0" L. x 6'-0" D. EACH.
5. TANK 8, UNHEATED NITRIC ACID, 5'-0" W. x 20'-0" L. x 6'-0" D.
6. TANKS 9 AND 10, UNHEATED WATER, 5'-0" W. x 20'-0" L. x 6'-0" D. EACH.
7. TANKS 11 AND 12, HEATED SODIUM HYDROXIDE, 5'-0" W. x 20'-0" L. x 6'-0" D. EACH.

**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 FOLLOWING NITRIC ACID TANKS SHALL NOT BE HEATED:  
NITRIC ACID TANK NO. 5  
NITRIC ACID TANK NO. 8  
[RULE 1303 (b) (2)-OFFSETS]
4. THE TEMPERATURE OF THE FOLLOWING TANKS SHALL NOT EXCEED 145 DEGREES FAHRENHEIT:  
CLEANING TANK NO. 11  
CLEANING TANK NO. 12  
[RULE 1303 (b) (2)-OFFSETS]

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS TOXIC AIR CONTAMINANTS IN AQMD RULE 1401, AS AMENDED ON MAY 2, 2003 OR EARLIER, EXCEPT NITRIC ACID AND SODIUM HYDROXIDE.

[RULE 1401]

6. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS TANKS NO. 1, 2, 5, 8, 11, AND 12 ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No.  
A/N 544938**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, LEFORT, HORIZONTAL PACKED TYPE, MODEL 244W-2R, 4'-7" W. x 11'-8" L. x 6'-6" H., WITH TWO ONE-FOOT PACKING SECTIONS AND TWO ¾-H.P. RECIRCULATION PUMPS.
2. EXHAUST SYSTEM WITH A 15-H.P. BLOWER  
VENTING AQUEOUS SOLUTION LINE UNDER PERMIT APPLICATION 544936.

**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. A FLOW METER, INDICATING GALLONS PER MINUTE (GPM), SHALL BE MAINTAINED IN EACH RECIRCULATING WATER LINE TO THE SCRUBBER.  
[RULE 1303 (b) (2)-OFFSETS; RULE 3004(a)(4)-PERIODIC MONITORING]
4. NOT LESS THAN 30 GPM OF WATER SHALL BE SUPPLIED TO EACH PACKED SECTION OF THE SCRUBBER WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.  
[RULE 1303 (b) (2)-OFFSETS]

**Periodic Monitoring:**

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

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**Emissions And Requirements:**

6. 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  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No.  
A/N 544942**

**Equipment Description:**

PRE-HEAT FURNACE, TITANIUM BILLETS, A & A, 16'-0" W. x 23'-0" L. x 10'-0" H., WITH EIGHT MAXON MODEL 0.5M KINEDIZER LOW NOX NATURAL GAS-FIRED BURNERS, 4,000,000 BTU PER HOUR TOTAL.

**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 NOX CONCENTRATION, ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED 30 PARTS PER MILLION BY VOLUME (PPMV).  
[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]
4. A NON-RESETTABLE TOTALIZING GAS METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE FURNACE.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]
5. THE AMOUNT OF NATURAL GAS FUEL CONSUMED BY THIS FURNACE AND THOSE FURNACES ASSOCIATED WITH PERMITS TO OPERATE 544943, 544944 AND 544945 SHALL NOT EXCEED 5,500,000 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401]
6. METAL CONTAMINATED WITH RUBBER, PLASTICS, PAPER, RAGS, OIL, GREASE, OR SIMILAR SMOKE-PRODUCING MATERIAL SHALL NOT BE CHARGED TO THIS FURNACE.  
[RULE 401, RULE 1303 (a) (1)-BACT]
7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 3, 5, AND 7. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

## **FACILITY PERMIT TO OPERATE WEBER METALS INC.**

### **Emissions And Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No.  
A/N 544943**

**Equipment Description:**

PRE-HEAT FURNACE (CHAIN), ALUMINUM BILLETS, LINDBERG, 26'-0" W. x 53'-0" L. x 11'-6" H., WITH EIGHT MAXON MODEL 0.5M KINEDIZER LOW NOX NATURAL GAS-FIRED BURNERS, 4,000,000 BTU PER HOUR TOTAL.

**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 NOX CONCENTRATION, ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED 30 PARTS PER MILLION BY VOLUME (PPMV).  
[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]
4. A NON-RESETTABLE TOTALIZING GAS METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE FURNACE.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]
5. THE AMOUNT OF NATURAL GAS FUEL CONSUMED BY THIS FURNACE AND THOSE FURNACES ASSOCIATED WITH PERMITS TO OPERATE 544942, 544944 AND 544945 SHALL NOT EXCEED 5,500,000 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401]

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

6. METAL CONTAMINATED WITH RUBBER, PLASTICS, PAPER, RAGS, OIL, GREASE, OR SIMILAR SMOKE-PRODUCING MATERIAL SHALL NOT BE CHARGED TO THIS FURNACE.

[RULE 401, RULE 1303 (a) (1)-BACT]

7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 5, AND 7. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

**Emissions And Requirements:**

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

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No.  
A/N 544944**

**Equipment Description:**

PRE-HEAT FURNACE (CAR BOTTOM NO. 2), STEEL DIES, LINDBERG, 16'-0" W. x 29'-0" L. x 14'-6" H., WITH FOUR MAXON MODEL 2.5M KINEDIZER LOW NOX NATURAL GAS-FIRED BURNERS, 10,000,000 BTU PER HOUR TOTAL.

**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 NOX CONCENTRATION, ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED 30 PARTS PER MILLION BY VOLUME (PPMV).  
[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]
4. A NON-RESETTABLE TOTALIZING GAS METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE FURNACE.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]
5. THE AMOUNT OF NATURAL GAS FUEL CONSUMED BY THIS FURNACE AND THOSE FURNACES ASSOCIATED WITH PERMITS TO OPERATE 544942, 544943 AND 544945 SHALL NOT EXCEED 5,500,000 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401]

## FACILITY PERMIT TO OPERATE WEBER METALS INC.

6. METAL CONTAMINATED WITH RUBBER, PLASTICS, PAPER, RAGS, OIL, GREASE, OR SIMILAR SMOKE-PRODUCING MATERIAL SHALL NOT BE CHARGED TO THIS FURNACE.

[RULE 401, RULE 1303 (a) (1)-BACT]

7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 3, 5, AND 7. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

### **Emissions And Requirements:**

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

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No.  
A/N 544945**

**Equipment Description:**

PRE-HEAT FURNACE (PEDESTAL), STEEL DIES, AOV INDUSTRIES, 15'-0" W. x 26'-0" L. x 10'-8" H., WITH ONE MAXON MODEL IEI XF STR LOW NOX NATURAL GAS-FIRED BURNERS, 4,000,000 BTU PER HOUR TOTAL.

**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 NOX CONCENTRATION, ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED 30 PARTS PER MILLION BY VOLUME (PPMV).  
[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]
4. A NON-RESETTABLE TOTALIZING GAS METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE FURNACE.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]
5. THE AMOUNT OF NATURAL GAS FUEL CONSUMED BY THIS FURNACE AND THOSE FURNACES ASSOCIATED WITH PERMITS TO OPERATE 544942, 544943 AND 544944 SHALL NOT EXCEED 5,500,000 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401]

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

6. METAL CONTAMINATED WITH RUBBER, PLASTICS, PAPER, RAGS, OIL, GREASE, OR SIMILAR SMOKE-PRODUCING MATERIAL SHALL NOT BE CHARGED TO THIS FURNACE.

[RULE 401, RULE 1303 (a) (1)-BACT]

7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 3, 5, AND 7. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

**Emissions And Requirements:**

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

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO CONSTRUCT**

**Permit No.  
A/N 544934**

**Equipment Description:**

PRE-HEAT FURNACE NO. 2, BOX TYPE, ALUMINUM AND TITANIUM BILLETS, CUSTOM MADE, 22'-0" W. x 23'-0" L. x 12'-0" H., WITH SIX BLOOM ENGINEERING MODEL 1480-030 NATURAL GAS-FIRED BURNERS, 6,400,000 BTU PER HOUR TOTAL.

**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 NOX CONCENTRATION, ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED 40 PARTS PER MILLION BY VOLUME (PPMV).

[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]

A NON-RESETTABLE TOTALIZING GAS METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE FURNACE.

[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

4. THE AMOUNT OF NATURAL GAS FUEL CONSUMED BY THIS FURNACE AND THOSE FURNACES ASSOCIATED WITH PERMITS TO OPERATE 544939, 544940 AND 544941 SHALL NOT EXCEED 8,531,100 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.

[RULE 1303 (b) (2)-OFFSETS; RULE 1401]

5. METAL CONTAMINATED WITH RUBBER, PLASTICS, PAPER, RAGS, OIL, GREASE, OR SIMILAR SMOKE-PRODUCING MATERIAL SHALL NOT BE CHARGED TO THIS FURNACE.

[RULE 401, RULE 1303 (a) (1)-BACT]

## FACILITY PERMIT TO OPERATE WEBER METALS INC.

6. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TEST(S), FOR NATURAL GAS FIRING, UNDER THE FOLLOWING CONDITIONS:
- A. A TEST PLAN SHALL BE SUBMITTED TO THE MECHANICAL, CHEMICAL AND PUBLIC SERVICES TEAM PRIOR TO INITIAL START-UP AND SHALL BE APPROVED BEFORE THE TEST COMMENCES. THE PLAN SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, THE IDENTITY OF THE TESTING LABORATORY, A STATEMENT FROM THE TESTING LABORATORY CERTIFYING IT MEETS THE CRITERIA IN DISTRICT RULE 304(k), AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
  - B. EMISSION TESTING SHALL BE CONDUCTED WITHIN 45 DAYS AFTER APPROVAL OF THE TEST PLAN. A COMPLETE TEST REPORT SHALL BE SUBMITTED TO THE MECHANICAL, CHEMICAL AND PUBLIC SERVICES TEAM WITHIN 45 DAYS OF COMPLETION OF THE TEST.
  - C. THE TEST(S) SHALL BE CONDUCTED AT MAXIMUM FIRING RATE, AND SHALL DETERMINE:
    - 1. THE CONCENTRATIONS, IN PPMV, ON A DRY BASIS CORRECTED TO 3% OXYGEN, OF NOX AND CO IN THE EXHAUST.
    - 2. THE EXHAUST FLOW RATE, IN ACTUAL CUBIC FEET PER MINUTE (AFCM).
    - 3. THE TEMPERATURE OF EXHAUST GASES, IN DEGREES FAHRENHEIT.
    - 4. THE FIRING RATE, IN BTU PER HOUR.
    - 5. BATCH LOAD, IN POUNDS.
    - 6. THE OXYGEN CONTENT OF EXHAUST GASES, IN PERCENT.
    - 7. THE MOISTURE CONENT OF EXHAUST GASES, IN PERCENT.
  - D. THE DISTRICT ENGINEER SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST DATE, OR WITHIN A TIME PERIOD AGREED UPON BY THE DISTRICT ENGINEER.
  - E. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.  
[RULE 217; RULE 304(k); RULE 1303 (a) (1)-BACT; RULE 1303 (b) (2)-OFFSETS; RULE 3004(a)(4)-PERIODIC MONITORING]
7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 3, 5, AND 7. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

### **Emissions And Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- CO: 2000 PPMV, RULE 407
  - PM: 0.1 GR/SCF, RULE 409
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No.  
A/N 544939**

**Equipment Description:**

PRE-HEAT FURNACE NO. 1, BOX TYPE, ALUMINUM AND TITANIUM BILLETS, CUSTOM MADE, 22'-0" W. x 23'-0" L. x 12'-0" H., WITH SIX BLOOM ENGINEERING MODEL 1480-030 NATURAL GAS-FIRED BURNERS, 6,400,000 BTU PER HOUR TOTAL.

**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 NOX CONCENTRATION, ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED 40 PARTS PER MILLION BY VOLUME (PPMV).  
[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]
4. A NON-RESETTABLE TOTALIZING GAS METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE FURNACE.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]
5. THE AMOUNT OF NATURAL GAS FUEL CONSUMED BY THIS FURNACE AND THOSE FURNACES ASSOCIATED WITH PERMITS TO OPERATE 544934, 544940 AND 544941 SHALL NOT EXCEED 8,531,100 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401]
6. METAL CONTAMINATED WITH RUBBER, PLASTICS, PAPER, RAGS, OIL, GREASE, OR SIMILAR SMOKE-PRODUCING MATERIAL SHALL NOT BE CHARGED TO THIS FURNACE.  
[RULE 401, RULE 1303 (a) (1)-BACT]
7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 3, 5, AND 7. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**Emissions And Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- CO: 2000 PPMV, RULE 407
  - PM: 0.1 GR/SCF, RULE 409
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE WEBER METALS INC.

### PERMIT TO OPERATE

Permit No.  
A/N 544940

#### Equipment Description:

PRE-HEAT FURNACE NO. 2, BOX TYPE, ALUMINUM AND TITANIUM BILLETS, CUSTOM MADE, 22'-0" W. x 23'-0" L. x 12'-0" H., WITH SIX BLOOM ENGINEERING MODEL 1480-030 NATURAL GAS-FIRED BURNERS, 6,400,000 BTU PER HOUR TOTAL.

#### 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 NOX CONCENTRATION, ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED 40 PARTS PER MILLION BY VOLUME (PPMV).  
[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]
4. A NON-RESETTABLE TOTALIZING GAS METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE FURNACE.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]
5. THE AMOUNT OF NATURAL GAS FUEL CONSUMED BY THIS FURNACE AND THOSE FURNACES ASSOCIATED WITH PERMITS TO OPERATE 544934, 544939 AND 544941 SHALL NOT EXCEED 8,531,100 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401]
6. METAL CONTAMINATED WITH RUBBER, PLASTICS, PAPER, RAGS, OIL, GREASE, OR SIMILAR SMOKE-PRODUCING MATERIAL SHALL NOT BE CHARGED TO THIS FURNACE.  
[RULE 401, RULE 1303 (a) (1)-BACT]
7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 3, 5, AND 7. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

## **FACILITY PERMIT TO OPERATE WEBER METALS INC.**

### **Emissions And Requirements:**

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

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE WEBER METALS INC.

### PERMIT TO OPERATE

Permit No.  
A/N 544941

#### Equipment Description:

PRE-HEAT FURNACE, ROTARY HEARTH TYPE, TITANIUM BILLETS, CUSTOM MADE, 26'-0" DIA. x 7'-0" H., WITH EIGHT BLOOM ENGINEERING MODEL 1480-035 NATURAL GAS-FIRED BURNERS, 12,000,000 BTU PER HOUR TOTAL.

#### 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 NOX CONCENTRATION, ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED 40 PARTS PER MILLION BY VOLUME (PPMV).  
[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]
4. A NON-RESETTABLE TOTALIZING GAS METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE FURNACE.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]
5. THE AMOUNT OF NATURAL GAS FUEL CONSUMED BY THIS FURNACE AND THOSE FURNACES ASSOCIATED WITH PERMITS TO OPERATE 544934, 544939 AND 544940 SHALL NOT EXCEED 8,531,100 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401]
6. METAL CONTAMINATED WITH RUBBER, PLASTICS, PAPER, RAGS, OIL, GREASE, OR SIMILAR SMOKE-PRODUCING MATERIAL SHALL NOT BE CHARGED TO THIS FURNACE.  
[RULE 401, RULE 1303 (a) (1)-BACT]
7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 3, 5 AND 7. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303 (b) (2)-OFFSETS; RULE 1401; RULE 3004(a)(4)-PERIODIC MONITORING]

## **FACILITY PERMIT TO OPERATE WEBER METALS INC.**

### **Emissions And Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE  
WEBER METALS INC.**

**PERMIT TO OPERATE**

**Permit No. F73290  
A/N 437120**

**Equipment Description:**

WASTE SLUDGE DRYER, JWI, J-MATE MODEL J360G, 5'-10" W. x 14'-2" L. x 6'-6" H., WITH SIXTEEN NATURAL GAS-FIRED BURNERS, 400,000 BTU PER HOUR TOTAL, ONE 1½-HP EXTRUDER AND ONE ½-HP CONVEYOR.

**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 IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]
4. THIS EQUIPMENT SHALL ONLY BE USED TO PROCESS SLUDGE GENERATED AT THIS FACILITY.  
[RULE 1303 (b) (2)-OFFSETS]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL METER IN THE FUEL LINE OF THIS EQUIPMENT.  
[RULE 1303 (b) (2)-OFFSETS; RULE 3004(a)(4)-PERIODIC MONITORING]

**Emissions And Requirements:**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE WEBER METALS INC.

### PERMIT TO OPERATE

Permit No. M39199  
A/N C38230

#### Equipment Description:

##### AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, L.W. LEFORD, CROSS-FLOW PACKED TYPE, MODEL NO. 606W2, 12'-6" W. x 8'-6" L. x 11'-0" H., WITH TWO 1½-H.P. RECIRCULATING PUMPS.
2. EXHAUST SYSTEM WITH A 75-H.P. BLOWER VENTING A HOT WATER RINSE TANK, A NON-ETCH CLEANER TANK, AND TWO CAUSTIC TANKS OF AN ETCHING 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. THE pH LEVEL OF THE SCRUBBING SOLUTION MUST BE NO MORE THAN 9.

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

#### Periodic Monitoring:

4. THE OPERATOR SHALL DETERMINE AND RECORD THE FLOW RATE OF THE SCRUBBING SOLUTION ONCE EVERY DAY.

[RULE 3004(a)-PERIODIC MONITORING]

5. THE OPERATOR SHALL DETERMINE AND RECORD THE pH OF THE SCRUBBING SOLUTION ONCE EVERY DAY.

[RULE 3004(a)(4)-PERIODIC MONITORING]

#### Emissions And Requirements:

6. 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  
WEBER METALS INC.**

**PERMIT TO CONSTRUCT/OPERATE**

**Permit No. G11858  
A/N 510789**

**Equipment Description:**

STORAGE TANK, PROPANE, PRESSURIZED, HORIZONTAL, 7' - 3"DIA. x 49' - 10"L., 15,000 GALLON CAPACITY.

**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. EXCEPT FOR FORKLIFT CYLINDERS, THERE SHALL BE NO TRANSFER FROM THIS EQUIPMENT TO ANY OTHER CONTAINERS.  
[RULE 1303 (b) (2)-OFFSETS]
4. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 3 AND 4. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303 (b) (2)-OFFSETS; RULE 3004(a)(4)-PERIODIC MONITORING]

## **FACILITY PERMIT TO OPERATE WEBER METALS INC.**

### **RULE 219 EQUIPMENT**

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, NON-CONTACT COOLING TOWERS

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
CR<sup>+6</sup>: RULE 1404

## **FACILITY PERMIT TO OPERATE WEBER METALS INC.**

### **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

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
ENGINEERING AND COMPLIANCE  
APPLICATION PROCESSING AND CALCULATIONS

PAGE 1 OF 12  
APPL. NO. See below  
PROCESSED BY TT  
CHECKED BY  
DATE 5/2/2013

APPLICANT'S NAME: WEBER METALS, INC.

MAILING ADDRESS: 16706 GARFIELD AVE.  
PARAMOUNT, CA 90723

EQUIPMENT ADDRESS: Same As Above

EQUIPMENT DESCRIPTION:

Application No. 544934: New Installation

PRE-HEAT (OVE-339), TITANIUM, THORPE TECHNOLOGIES INC., CUSTOM, 34'-0" W. x 23'-0" L. x 18'-0" H., WITH TWO BLOOM ENGINEERING MODEL 1480-035 BURNERS, NATURAL GAS FIRED, 8,540,000 BTU PER HOUR TOTAL.

Application No. 544939: Change of Condition, Previous Permit No. G15184 (A/N 523965)

PRE-HEAT FURNACE NO. 1, BOX TYPE, ALUMINUM AND TITANIUM BILLETS, CUSTOM MADE, 22'-0" W. x 23'-0" L. x 12'-0" H., WITH SIX BLOOM ENGINEERING MODEL 1480-030 NATURAL GAS- / LPG- FIRED BURNERS, 6,400,000 BTU PER HOUR TOTAL.

Application No. 544940: Change of Condition, Previous Permit No. G15185 (A/N 523966)

PRE-HEAT FURNACE NO. 2, BOX TYPE, ALUMINUM AND TITANIUM BILLETS, CUSTOM MADE, 22'-0" W. x 23'-0" L. x 12'-0" H., WITH SIX BLOOM ENGINEERING MODEL 1480-030 NATURAL GAS- / LPG- FIRED BURNERS, 6,400,000 BTU PER HOUR TOTAL.

Application No. 544941: Change of Condition, Previous Permit No. G15186 (A/N 523967)

PRE-HEAT FURNACE, ROTARY HEARTH TYPE, TITANIUM BILLETS, CUSTOM MADE, 26'-0" DIA. x 7'-0" H., WITH EIGHT BLOOM ENGINEERING MODEL 1480-035 NATURAL GAS- / LPG- FIRED BURNERS, 12,000,000 BTU PER HOUR TOTAL.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS	PAGE 2 OF 12 APPL. NO. See below PROCESSED BY TT CHECKED BY DATE 5/2/2013
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Application No. 544942: Change of Condition, Previous Permit No. G15187 (A/N 523968)

PRE-HEAT FURNACE, TITANIUM BILLETS, A & A, 16'-0" W. x 23'-0" L. x 10'-0" H., WITH EIGHT MAXON MODEL 0.5M KINEDIZER LOW NOX NATURAL GAS- / LPG- FIRED BURNERS, 4,000,000 BTU PER HOUR TOTAL.

Application No. 544943: Change of Condition, Previous Permit No. G15188 (A/N 523970)

PRE-HEAT FURNACE (CHAIN), ALUMINUM BILLETS, LINDBERG, 26'-0" W. x 53'-0" L. x 11'-6" H., WITH EIGHT MAXON MODEL 0.5M KINEDIZER LOW NOX NATURAL GAS- / LPG- FIRED BURNERS, 4,000,000 BTU PER HOUR TOTAL.

Application No. 544944: Change of Condition, Previous Permit No. G15189 (A/N 523971)

PRE-HEAT FURNACE (CAR BOTTOM NO. 2), STEEL DIES, LINDBERG, 16'-0" W. x 29'-0" L. x 14'-6" H., WITH FOUR MAXON MODEL 2.5M KINEDIZER LOW NOX NATURAL GAS- / LPG- FIRED BURNERS, 10,000,000 BTU PER HOUR TOTAL.

Application No. 544945: Change of Condition, Previous Permit No. G15190 (A/N 523972)

PRE-HEAT FURNACE (PEDESTAL), STEEL DIES, AOV INDUSTRIES, 15'-0" W. x 26'-0" L. x 10'-8" H., WITH ONE MAXON MODEL IEI XF STR LOW NOX NATURAL GAS- / LPG- FIRED BURNERS, 4,000,000 BTU PER HOUR TOTAL.

Application No. 544936: Modify Previous Permit No. D57822 (A/N 194103)

AQUEOUS SOLUTION LINE CONSISTING OF:

1. ETCHING TANK, NO. 6, NITRIC ACID, 8'-4" L. x 3'-10" W. x 4'-4" H., UNHEATED.
2. NITRIC ACID RINSE TANK, NO. 5, 8'-4" L. x 3'-10" W. x 4'-4" H, UNHEATED.
3. ETCHING TANK NO. 8, SODIUM HYDROXIDE, 8'-4" L. x 3'-10" W. x 4'-4" H., STEAM HEATED.
4. CAUSTIC RINSE TANK, NO. 7, 8'-4" L. x 3'-10" W. x 4'-4" H, UNHEATED.
5. ETCHING TANK, NO. 4, NITRIC ACID, 8'-4" L. x 3'-10" W. x 4'-4" H., UNHEATED.
6. NITRIC ACID RINSE TANK, NO. 3, 8'-4" L. x 3'-10" W. x 4'-4" H, UNHEATED.
7. RINSE TANK, NO. 2, 8'-4" L. x 3'-10" W. x 4'-4" H, UNHEATED.
8. RINSE TANK, NO. 1, 8'-4" L. x 3'-10" W. x 4'-4" H, HEATED.

ALL TANKS, EXCEPT TANKS NO. 2 AND 3, ARE VENTED TO THE SCRUBBER UNDER PERMIT APPLICATION 544938.

Application No. 544938: Modify Previous Permit No. F79101 (A/N 418059)

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, LEFORT, HORIZONTAL PACKED TYPE, MODEL 244W-2R, 4'-7" W. x 11'-8" L. x 6'-6" H., WITH TWO ONE-FOOT PACKING SECTIONS AND TWO ¾-H.P. RECIRCULATION PUMPS.
2. EXHAUST SYSTEM WITH A 15-H.P. BLOWER VENTING AQUEOUS SOLUTION LINE UNDER PERMIT APPLICATION NO. 544936.

Application No. 544946: TV Permit revision

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS	PAGE 4 OF 12 APPL. NO. See below PROCESSED BY TT CHECKED BY DATE 5/2/2013
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**HISTORY / PROCESS DESCRIPTION:**

On November 16, 2012, the applicant submitted the above applications to revise his Title V (TV) facility permit. The revisions are as follows:

- 1) Installation of a new furnace and change of conditions the existing furnaces

**Group1 Furnaces:** sharing revised bubble monthly natural gas consumption rate at 8.5311 million standard cubic feet (MMSCFT), previously 6.0 MMSCFT.

- Application 544934: installation of a new pre-heat titanium furnace. This furnace will share with other furnaces in Group 1 a bubble monthly natural gas consumption rate at 8.5311 MMSCFT.
- Application 544939: change permit condition for the furnace previously under permit G15184 (A/N 523965). This furnace will share with other furnaces in Group 1 a bubble monthly natural gas consumption rate at 8.5311 MMSCFT.
- Application 544940: change permit condition for the furnace previously under permit G15185 (A/N 523966). This furnace will share with other furnaces in Group 1 a bubble monthly natural gas consumption rate at 8.5311 MMSCFT.
- Application 544941: change permit condition for the furnace previously under permit G15186 (A/N 523967). This furnace will share with other furnaces in Group 1 a bubble monthly natural gas consumption rate at 8.5311 MMSCFT.

**Group2 Furnaces:** sharing revised bubble monthly natural gas consumption rate at 5.5 MMSCFT, previously 8.8729 MMSCFT.

- Application 544942: change permit condition for the furnace previously under permit G15187 (A/N 523968). This furnace will share with other furnaces in Group 2 a bubble monthly natural gas consumption rate at 5.5 MMSCFT.
  - Application 544943: change permit condition for the furnace previously under permit G15188 (A/N 523970). This furnace will share with other furnaces in Group 2 a bubble monthly natural gas consumption rate at 5.5 MMSCFT.
  - Application 544944: change permit condition for the furnace previously under permit G15189 (A/N 523971). This furnace will share with other furnaces in Group 2 a bubble monthly natural gas consumption rate at 5.5 MMSCFT.
  - Application 544945: change permit condition for the furnace previously under permit G15190 (A/N 523972). This furnace will share with other furnaces in Group 2 a bubble monthly natural gas consumption rate at 5.5 MMSCFT.
- 2) Application 544936: Modify Aqueous Solution Line under previous permit D57822 (A/N 194103) to add a "heated caustic cleaning tank" and replace "associated rinse tanks" with and "5 rinse tanks (1 of which is heated)"
- 3) Application 544938: Modify the Air Pollution Control System under previous permit F79101 (A/N 418059) to vent corresponding process tanks in the Aqueous Solution Line.

The applicant requests to increase the bubble fuel consumption of Group 1 furnaces from 6.0 MMSCFT/mo to 8.5311 MMSCFT/mo and decrease the bubble fuel consumption of the Group 2 furnaces from 8.8729 MMSCFT to 5.5 MMSCFT/mo so that the overall fuel consumption of the two Groups will be slightly decrease, and that the overall emissions will be the same.

**EMISSION CALCULATION:**

1. Furnaces:

As seen in Table 1 below, furnaces in group having NOx emissions limit at 40 ppmv are proposed to increase the fuel usage whereas those furnaces in group 2 having NOx limit at 30 ppmv are at lower fuel usage. The overall fuel consumption rates for the two furnace groups are reduced by about 850,000 scf/mo.

**TABLE 1: Fuel Consumption Changes**

A/Ns	Furnace Description	Previous		NOx	Bubbles	Bubble Fuel Limits, scf/mo		
		Permits	A/Ns	ppmv @ 3% O2		Current	Proposed	Changes
544934	Titanium new	—	—	40	Fuel Bubble 1	6,000,000	8,531,100	2,531,100
544939	Titanium	G15184	523965	40				
544940	Titanium	G15185	523966	40				
544941	Titanium	G15186	523967	40				
544942	Titanium	G15187	523968	30	Fuel Bubble 2	8,872,900	5,500,000	-3,372,900
544943	Aluminum	G15188	523970	30				
544944	Aluminum	G15189	523971	30				
544945	Aluminum	G15190	523972	30				
<b>Combined Total</b>						<b>14,872,900</b>	<b>14,031,100</b>	<b>-841,800</b>

Table 2 shows the overall NOx emissions from the two furnace groups remain un-changed from this proposal.

Since the emission factors for the remaining criteria pollutants, i.e., CO, VOC, PM10 and SOx, are the same before and after the proposed fuel consumption changes, the overall emissions of these pollutants will be reduced proportionally with the reduced fuel consumption.

Given:

Emission factor = 1.27 lb NO<sub>x</sub>/MMft<sup>3</sup>-ppmv

Current NO<sub>x</sub> Emissions:

Bubble 1:

$$1.27 \text{ lb NO}_x/\text{MMft}^3\text{-ppmv} * 6 \text{ MMft}^3/\text{mo} * 1 \text{ mo}/30 \text{ dy} * 40 \text{ ppmv} = 10.16 \text{ lb/dy}$$

Bubble 2:

$$1.27 \text{ lb NO}_x/\text{MMft}^3\text{-ppmv} * 8.8729 \text{ MMft}^3/\text{mo} * 1 \text{ mo}/30 \text{ dy} * 30 \text{ ppmv} = 11.29 \text{ lb/dy}$$

Proposed NO<sub>x</sub> Emissions:

Bubble 1:

$$1.27 \text{ lb NO}_x/\text{MMft}^3\text{-ppmv} * 8.531 \text{ MMft}^3/\text{mo} * 1 \text{ mo}/30 \text{ dy} * 40 \text{ ppmv} = 14.45 \text{ lb/dy}$$

Bubble 2:

$$1.27 \text{ lb NO}_x/\text{MMft}^3\text{-ppmv} * 5.5 \text{ MMft}^3/\text{mo} * 1 \text{ mo}/30 \text{ dy} * 30 \text{ ppmv} = 6.99 \text{ lb/dy}$$

**TABLE 2: NO<sub>x</sub> Emission Changes**

A/Ns	Furnace Description	Previous		NO <sub>x</sub> ppmv @ 3% O <sub>2</sub>	Bubbles	Emission lb/dy		
		Permits	A/Ns			Current	Proposed	Changes
544934	Titanium new	—	—	40	Fuel Bubble 1	10.16	14.45	4.29
544939	Titanium	G15184	523965	40				
544940	Titanium	G15185	523966	40				
544941	Titanium	G15186	523967	40				
544942	<del>Titanium</del> Aluminum	G15187	523968	30	Fuel Bubble 2	11.29	6.99	-4.30
544943	Aluminum	G15188	523970	30				
544944	Aluminum	G15189	523971	30				
544945	Aluminum	G15190	523972	30				
Combined Total						21.45	21.44	-0.01

For NSR entry purposes, it is proposed to have the daily emissions, i.e., 14.45 lb/dy for bubble group 1 and 6.99 lb/dy for bubble group 2, are divided evenly among the 4 respective furnaces in each of the groups. It's further recommended, due to the round up/down features of NSR data base, NSR NOx emission data of one of the furnaces is rounded down to compensate for the emissions being rounded up for the remaining 3 furnaces in each respective group. The entries are tabulated in Table 3 below:

**TABLE 3: NOx Emissions**

A/Ns	Furnace Description	ppmv @ 3% O <sub>2</sub>	Bubbles	NOx Emission			
				lb/hr	lb/dy	NSR round up/down (lb/dy)	lb/dy
544934	Titanium <i>new</i>	40	Fuel Bubble 1	0.15	3.61	4.00	15.00
544939	Titanium	40		0.15	3.61	4.00	
544940	Titanium	40		0.15	3.61	4.00	
544941	Titanium	40		0.15	3.61	3.00 <sup>1</sup>	
544942	<del>Titanium</del> <i>Titanium</i> Aluminum	30	Fuel Bubble 2	0.07	1.75	2.00	7.00
544943	Aluminum	30		0.07	1.75	2.00	
544944	Aluminum	30		0.07	1.75	2.00	
544945	Aluminum	30		0.07	1.75	1.00 <sup>1</sup>	
Combined Total				0.88	21.40	22.00	22.00

<sup>1</sup> override rounded down to compensate for the rounded up emissions in the remaining 3 units in the bubble group

**TABLE 4: Criteria Pollutant Emissions**

A/Ns	Bubbles	Monthly Fuel Consumption ft <sup>3</sup>	Emission Factors (lb/mmft <sup>3</sup> )			
			35.00	7.00	7.50	0.60
			CO <sup>2</sup> (lb/hr)	ROG <sup>2</sup> (lb/hr)	PM10 <sup>2</sup> (lb/hr)	SOx <sup>2</sup> (lb/hr)
544934	Fuel Bubble 1	8,531,100	0.10	0.02	0.02	0.00
544939			0.10	0.02	0.02	0.00
544940			0.10	0.02	0.02	0.00
544941			0.10	0.02	0.02	0.00
544942	Fuel Bubble 2	5,500,000	0.07	0.01	0.01	0.00
544943			0.07	0.01	0.01	0.00
544944			0.07	0.01	0.01	0.00
544945			0.07	0.01	0.01	0.00

<sup>2</sup> Emissions are based on the monthly fuel consumption limit of each respective group and equally allocated among the furnaces in each group.

Sample calculations, for CO in Group 1:

8.531 mmft<sup>3</sup>/mo - group x 35 lb/mmft<sup>3</sup> x 1 mo/30 dy x 1 dy/24 hr x group/4 furnaces

2. Aqueous Solution Line:

For this type of emission source, it only generates PM emissions.

Given emission factors:

- 0.01 lb/ft<sup>2</sup> per hr for tanks utilizing rectifier
- 0.003 lb/ft<sup>2</sup> per hr for heated tanks without rectifier
- 0.001 lb/ft<sup>2</sup> per hr for unheated tanks without rectifier
- No emission for water rinse tanks

PM emission = emission factor \* surface area

Tank 8	= 0.003 lb/ft <sup>2</sup> -hr * 31.93 ft <sup>2</sup> =	0.096 lb/hr	=	2.3 lb/dy
Tanks 4 & 6	= 2 * 0.001 lb/ft <sup>2</sup> -hr * 31.93 ft <sup>2</sup> =	<u>0.064 lb/hr</u>	=	<u>1.53 lb/dy</u>
		R1= 0.16 lb/hr	=	3.83 lb/dy
	@90% efficiency	R2= 0.02 lb/hr	=	0.38 lb/dy

PM<sub>10</sub> = 50% PM

	R1= 0.08 lb/hr	=	1.91 lb/dy
@90% efficiency	R2= 0.01 lb/hr	=	0.19 lb/dy

**RULES EVALUATION:**

Rule 401            The equipment has been operated in compliance with the requirements of this rule. Continue in compliance is expected.

Rule 402            The equipment has been operated in compliance with the requirements of this rule. Continue in compliance is expected.

Rule 1174           These are pre-heat metal furnaces. The ones used to pre-heat aluminum are operated at 1000-1200°F and have been subject to 30 ppmv NOx emission limit, whereas the ones used to pre-heat titanium are operated at around 2000°F and have been subject to 40 ppmv NOx limit. The existing furnaces have met their respective emission requirement so they meet the requirements of this rule. The new furnace used for titanium is subject to BACT requirements, i.e., 40 ppmv NOx among others. A source test will be required to demonstrate compliance with BACT. This new furnace once meets BACT will meet the requirements of this rule.

Reg XIII            The new furnace is subject to Best Available Control Technology (BACT). Although the District's BACT Guideline shows that the requirements for this type of furnace are 50 ppmv @ 3% oxygen for NOx and natural gas for SOx and inorganic, but the Guideline was last updated in 1990. Because several permits were issued to the applicant for the same type of furnace, i.e., treating titanium, in 2011 with 40 ppmv @3% oxygen for NOx emission limit<sup>3</sup>, and that the limit has been achieved in practice, 40 ppmv @3% oxygen for NOx will be applicable

BACT for this new furnace. Source test will be required to demonstrate compliance with BACT.

For existing furnaces, they have been required and continue to meet their applicable BACTs, i.e., 30 ppmv (treating aluminum) or 40 ppmv (treating titanium) @3% oxygen.

Modification of the process line also triggers BACT requirements. The applicant proposed to vent the additional tank to a scrubber which is BACT. This modification meets BACT requirements.

Installation of a new furnace and change of conditions on existing furnaces are restricted in such a way that the overall emissions are either the same (NOx) or lower (CO, VOC and PM10) so no offsets are required. Emissions from the new furnace and those that having higher fuel throughput will emit 0.15 lb/hr NOx, 0.10 lb/hr CO and 0.02 lb/hr PM10 which are less than 0.47 lb/hr NOx, 25.9 lb/hr CO and 2.8 lb/hr PM10 as specified in Table A of Rule 1303, no detail modeling are required.

PM10 emission for the process line is less than 0.2 lb/day, no PM10 emission offset is required. It's also less than 0.41 lb/hr as stated in Table A-1 of Rule 1303 so no detail modeling is required.

<sup>3</sup> Please note that in 2011, the furnace treating titanium was issued with NOx BACT limit at 30 ppmv under Permit No. G15187 (A/N 523968), but according to the applicant (in the attached letter dated March 20, 2013), the combustion technology designed and used for this custom-built furnace has not provided uniform temperature, i.e., within 25°F through the furnace's heated work zone, to produce the products conforming to the aviation standards. For this reason, the furnace has been used for limited operation conditions, and that it will be decommissioned in a near future. Furthermore, the applicant claims that the proposed new furnace manufactured by Thorpe is one of most uniform heating furnaces in the market that can provide the desired products, and that no other furnace of this kind can achieve lower NOx emission than 40 ppmv.

Rule 1401

The proposed new installation and change of conditions of furnace along with the modification of the process line do not increase emissions of carcinogens or hazardous air pollutants, no risk assessment is required.

Reg XX

Although NOx emissions at this facility are more than 4 tons a year, NOx emissions from permitted sources, described in Rule 2001(b) are less than 4 tons a year. This facility is not subject to NOx RECLAIM.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS	PAGE 12 OF 12 APPL. NO. See below PROCESSED BY TT CHECKED BY DATE 5/3/2013
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Reg XXX This is a Title V facility so the requirements of this regulation are applicable.

This Title V permit revision causes no emission increase so no increase green house gases.

This Title V permit revision is not an administrative revision as defined by this regulation so it is subject to EPA review. The proposal will be submitted to EPA for their comments.

Rule 3004(a)(4) The rule requires inspection, monitoring, installing meters and record keeping. The requirements for inspection, monitoring, installing meters and record keeping will remain the same for existing, modified and new devices. Source test will be required on the new furnace.

**DISCUSSIONS:**

It has been determined that the equipment in these proposed changes will be operated in compliance with all the applicable Rules and Regulations.

**RECOMMENDATIONS:**

Issue a revised TV permit to the facility (after EPA' review) which includes:

- Permits to operate to existing furnaces
- Permit to construct to the new furnace
- Permit to operate the modified process line
- Permit to operate the modified scrubber

as described in the attached "Draft" TV permit.