

FACILITY PERMIT TO OPERATE

**SORENSEN ENGINEERING INC, FRANK SORENSON
32032 DUNLAP BLVD
YUCAIPA, CA 92399**

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 SORENSEN ENGINEERING INC, FRANK SORENSON

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FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC, FRANK SORENSON

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: SORENSON ENGINEERING INC, FRANK SORENSON

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 32032 DUNLAP BLVD
 YUCAIPA, CA 92399-1767

MAILING ADDRESS: 32032 DUNLAP BLVD
 YUCAIPA, CA 92399-1767

RESPONSIBLE OFFICIAL: PAUL SEWELL

TITLE: CEO

TELEPHONE NUMBER: (909) 795-2434

CONTACT PERSON: PAUL SEWELL

TITLE: CEO

TELEPHONE NUMBER: (909) 795-2434

TITLE V PERMIT ISSUED: December 30, 2008

TITLE V PERMIT EXPIRATION DATE: December 29, 2013

TITLE V	RECLAIM
YES	NOx: NO SOx: NO CYCLE: 0 ZONE: INLAND

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC, FRANK SORENSON
SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION**

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC, FRANK SORENSON**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

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 SORENSON ENGINEERING INC, FRANK SORENSON

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
367894	F42611	VACUUM DEGREASER AND SOLVENT RECYCLING SYSTEM
367895	F42612	ACTIVATED CARBON ADSORPTION AND DESORBTION SYSTEM
514135		CHEMICAL DEBURRING LINE
523064		CHEMICAL DEBURRING LINE
523065		GOLD PLATING LINE
523070		FUME SCRUBBER
523072		FUME SCRUBBER
523073		NOX SCRUBBER

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 SORENSEN ENGINEERING INC, FRANK SORENSON

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]

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PERMIT TO OPERATE

Permit No. F42611
A/N 367894

Equipment Description:

VACUUM DEGREASER AND SOLVENT RECYCLING SYSTEM, TIYODA YEV-604-142, CONSISTING OF:

1. CLEANING CHAMBER 2'-0" DIA. X 1'-4" H., TRICHLOROETHYLENE, ULTRASONIC.
2. VAPOR GENERATOR, 6 KW.
3. WARM SOLVENT TANK, 45 GALLONS.
4. COLD SOLVENT TANK, 45 GALLONS.
5. DECANT DRYER AND WATER SEPARATOR.
6. DISTILLATION UNIT WITH A 16 KW HEATER, 25 GALLONS CAPACITY.
7. REFRIGERATION UNIT, 2.2 KW.
8. TWO VACUUM PUMPS, 1.1 KW EACH, WITH ASSOCIATED PUMPS AND FILTERS.

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 CLEANING CHAMBER SHALL BE SCAVENGED FOR SOLVENT VAPOR AT LEAST TWO TIMES PRIOR TO OPENING THE CHAMBER. EACH SCAVENGING PHASE SHALL BE CONDUCTED UNDER A VACUUM OF NOT LESS THAN 20 TORR.
[RULE 1303(a)(1)-BACT]
4. EACH SOLVENT VAPOR SCAVENGING EVENT SHALL BE PASSED THROUGH THE REGENERATIVE CARBON ADSORBER SPECIFIED FOR USE WITH THIS EQUIPMENT.
[RULE 1303(a)(1)-BACT]
5. ONLY VAPOR DEGREASER GRADE TRICHLOROETHYLENE MAY BE USED IN THIS EQUIPMENT.
[RULE 1401]

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6. THE TOTAL QUANTITY OF SOLVENT USAGE LOSS FROM THIS DEGREASER, NOT INCLUDING SALVAGED SOLVENT, SHALL NOT EXCEED 125 POUNDS PER MONTH BASED ON A 30-DAY AVERAGE.
[RULE 1303(b)(2)-OFFSET]
7. MATERIAL SAFETY DATA SHEETS FOR ALL MATERIALS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET, 1401]
8. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE CALENDAR MONTHLY VOLUME USAGE AND DISPOSAL RECORDS OF TRICHLOROETHYLENE. ALL RECORDS SHALL BE PREPARED IN A FORMAT ACCEPTABLE TO THE DISTRICT AND RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET, 1401]
9. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH THE REQUIREMENTS OF 40 CFR PART 63, SUBPART T.
[40 CFR63, SUBPART T]
10. AN OPERATING LOG SHALL BE MAINTAINED FOR THIS EQUIPMENT TO VERIFY COMPLIANCE WITH CONDITION NUMBER 6. THIS LOG SHALL INCLUDE, AT A MINIMUM, THE DATE OF EQUIPMENT OPERATION, THE VOLUME OF SOLVENT REPLACED IN THE DEGREASER, AND THE VOLUME OF SOLVENT RECLAIMED.
[RULE 1303(b)(2)-OFFSET, 40 CFR63 SUBPART T]
11. THE OWNER/ OPERATOR SHALL DETERMINE THE AMOUNT OF SPENT SOLVENT THAT IS RECOVERED BY USING EPA METHOD 25D – DETERMINATION OF THE VOLATILE ORGANIC CONCENTRATION OF WASTE SAMPLES (56 FR 33544) OR BY ENGINEERING CALCULATIONS USED IN THE COMPLIANCE REPORT.
[RULE 1303(b)(2)-OFFSET, 40 CFR63 SUBPART T]
12. THE OPERATOR SHALL SUBMIT ALL OF THE FOLLOWING REPORTS TO THE DISTRICT BY THEIR RESPECTIVE DUE DATES AS INDICATED. THE OPERATOR SHALL USE THE APPROPRIATE FORMS TO SUBMIT THE REQUIRED INFORMATION.
 - A. ANNUAL USAGE OF SOLVENT: FEBRUARY 1 OF THE FOLLOWING YEAR OF USE, PARTS I AND II; FORMS F-12 AND F-13.
 - B. EXCEEDANCES REPORT: SEMI-ANNUALLY WITHOUT MAJOR EXCEEDANCE (CORRECTED WITHIN 15 DAYS) OR QUARTERLY REPORTS FOR A MINIMUM OF ONE YEAR WITH MAJOR EXCEEDANCE, PARTS I AND II; FORMS F-14 AND F-15.
[40 CFR63, SUBPART T]

Emissions And Requirements:

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

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VOC: RULE 109

VOC: RULE 1122

HAP(s): 40CFR63 SUBPART T, SEE SECTION J FOR REQUIREMENTS

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PERMIT TO OPERATE

Permit No. F42612
A/N 367895

Equipment Description:

ACTIVATED CARBON ADSORPTION AND DESORPTION SYSTEM, TIYODA YAC-1200, CONSISTING OF:

1. TWO ADSORPTION/ DESORPTION VESSELS, 1'-8" DIA. X 2'-7" H., EACH CONTAINING 40 LBS. OF PELLETIZED CARBON.
2. COOLING WATER TANK, 26.4 GALLONS WITH A 150 W. PUMP.
3. STEAM GENERATOR, 5 KW.
4. VACUUM PUMP, 300 W.

SERVING A VACUUM DEGREASER AND SOLVENT RECYCLING 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. THE CARBON ADSORBER REGENERATION FREQUENCY SHALL BE CONDUCTED AUTOMATICALLY AND SHALL BE CALIBRATED FOR TRICHLOROETHYLENE BY THE MANUFACTURER OR ITS REPRESENTATIVE ONLY.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH THE REQUIREMENTS OF 40 CFR PART 63, SUBPART T.
[40 CFR63 SUBPART T]
5. THE EXHAUST CONCENTRATION OF ANY HAZARDOUS AIR POLLUTANT (HAP) SOLVENT FROM THE CARBON ADSORBER SHALL NOT EXCEED 100 PARTS PER MILLION BY VOLUME (PPMV). AN EXCEEDANCE HAS OCCURRED IF THIS REQUIREMENT IS NOT MET AND NOT CORRECTED WITHIN 15 DAYS AFTER DETECTION.
[40 CFR63 SUBPART T]

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6. THE CARBON ADSORBER SHALL NOT BE BYPASSED DURING DESORPTION. AN EXCEEDANCE HAS OCCURRED IF THIS REQUIREMENT IS NOT MET.
[40 CFR63 SUBPART T]
7. THE EXHAUST CONCENTRATION OF SOLVENT FROM THE CARBON ADSORBER SHALL BE MEASURED WEEKLY USING A CALORIMETRIC DETECTOR TUBE. THE SOLVENT CONCENTRATION SHALL BE MEASURED AT SAMPLING PORTS THAT ARE LOCATED AT LEAST EIGHT (8) STACK OR DUCT DIAMETERS DOWNSTREAM FROM ANY FLOW DISTURBANCES AND AT LEAST TWO (2) STACK OR DUCT DIAMETERS UPSTREAM FROM ANY FLOW DISTURBANCES. AN ALTERNATIVE MEASUREMENT MAY BE USED UPON APPROVAL BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT, 40CFR63 SUBPART T]
8. THE CALORIMETRIC TUBE USED TO TAKE THE MEASUREMENTS SHOULD BE DESIGNED TO MEASURE A CONCENTRATION OF 100 PPMV OF SOLVENT IN AIR TO AN ACCURACY OF PLUS OR MINUS 25 PPMV. IN ADDITION, THE CALORIMETRIC TUBE SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
[RULE 1303(a)(1)-BACT, 40 CFR63 SUBPART T]
9. THE OWNER/ OPERATOR SHALL MAINTAIN RECORDS OF DATES AND RESULTS OF WEEKLY TESTS CONDUCTED ON THE EXHAUST FROM THE CARBON ADSORPTION SYSTEM. THE RECORDS SHALL BE MAINTAINED ON FILE EITHER IN WRITTEN OR ELECTRONIC FORM FOR FIVE YEARS. ALL RECORDS SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, 40 CFR63 SUBPART T]
10. ANY EXCEEDANCES SHALL BE ADJUSTED OR REPAIRED TO RE-ESTABLISH REQUIRED LEVELS.
[RULE 1303(a)(1)-BACT, 40 CFR63 SUBPART T]

Emissions And Requirements:

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

VOC: RULE 1122
HAP(s): 40CFR63 SUBPART T, SEE SECTION J FOR REQUIREMENTS

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

PERMIT TO OPERATE

Permit No.
A/N 514135

Equipment Description:

CHEMICAL DEBURRING LINE CONSISTING OF:

1. TANK NO. 1A, NITRIC ACID, PHOSPHORIC ACID, ACETIC ACID, WITH 1.43 SQUARE FEET OF SURFACE AREA, HEATED
2. TANK NO. 1B, PHOSPHORIC ACID, NITRIC ACID AND ACETIC ACID, WITH 1.43 SQUARE FEET OF SURFACE AREA, HEATED
3. TANK NO. 1C, SULFURIC ACID, WITH 0.80 SQUARE FEET OF SURFACE AREA, HEATED
4. TANK NO. 2A, PHOSPHORIC ACID, NITRIC ACID AND ACETIC ACID, WITH 1.40 SQUARE FEET OF SURFACE AREA, HEATED
5. TANK NO. 2B, PHOSPHORIC ACID, NITRIC ACID AND ACETIC ACID, WITH 1.43 SQUARE FEET OF SURFACE AREA, HEATED
6. TANK NO. 2C, PHOSPHORIC ACID, NITRIC ACID AND ACETIC ACID, WITH 0.8 SQUARE FEET OF SURFACE AREA, HEATED
7. TANK NO. 5, AQUA POLISH/BRIGHT DIP, AQUA POLISH AND HYDROGEN PEROXIDE, WITH 1.40 SQUARE FEET OF SURFACE AREA, HEATED
8. TANK NO. 6, DEOXIDIZER, SULFURIC ACID, WITH 1.40 SQUARE FEET OF SURFACE AREA.
9. TANK NO. 7, PASSIVATION, NITRIC ACID, WITH 0.80 SQUARE FEET OF SURFACE AREA, HEATED.
10. TANK NO. 8, SOAP SOLUTION, PHOSPHORIC ACID AND ETCHEC COMPOUND, WITH 2.12 SQUARE FEET OF SURFACE AREA, HEATED
11. TANK NO. 11, COBRA TEC, WITH 1.40 SQUARE FEET OF SURFACE AREA, HEATED

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

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

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

6. THE OPEN 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)	MAXIMUM ANNUAL AMPERE-HOURS (PER CALENDAR YEAR)	MAXIMUM OPERATING TEMPERATURE (DEGREES F)
1A	NITRIC ACID	10.0	N/A	165
1A	PHOSPHORIC ACID	70.0	N/A	165
1B	NITRIC ACID	10.0	N/A	165
1B	PHOSPHORIC ACID	70.0	N/A	165
1C	SULFURIC ACID	70.0	N/A	165
2A	NITRIC ACID	10.0	N/A	165
2A	PHOSPHORIC ACID	70.0	N/A	165
2B	NITRIC ACID	10.0	N/A	165
2B	PHOSPHORIC ACID	70.0	N/A	165
2C	NITRIC ACID	10.0	N/A	165
2C	PHOSPHORIC ACID	70.0	N/A	165
6	SULFURIC ACID	12.0	N/A	AMBIENT
7	NITRIC ACID	60.0	N/A	130

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

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8. THE TOTAL AMOUNT OF COBRATECH SOLUTION USED IN TANK NO. 11 SHALL NOT EXCEED 4.4 GALLONS IN ANY ONE MONTH.
[RULE 1303(a)(1)- BACT]

9. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY OF THE COMPOUNDS OR ELEMENTS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED SEPTEMBER 10, 2010, EXCEPT AS DESCRIBED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
[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 AQMD PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:
 - A. AT LEAST ONCE PER MONTH, THE CONCENTRATION IN PERCENT BY WEIGHT OF THE COMPOUNDS LISTED IN CONDITION NO. 6.

 - B. THE QUANTITY AND COMPOSITION OF EACH MATERIAL ADDED TO EACH TANK DURING REPLENISHMENT

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

 - D. THE TOTAL AMOUNT OF COBRATECH SOLUTION USED PER MONTH IN GALLONS.
[RULE 1303(b)(2)-OFFSET, 1401]

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

PERMIT TO CONSTRUCT

A/N 523064
Granted as of 12/1/2011

Equipment Description:

CHEMICAL DEBURRING LINE CONSISTING OF:

1. TANK, NO. 13, ANTI-TARNISH, BENZOTRIAZOLE, ISOPROPANOL, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO AIR POLLUTION CONTROL (APC) SYSTEM NO.3.
2. TANK, NO. 14, PASSIVATION, SODIUM HYDROXIDE, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
3. TANK, NO. 21, PASSIVATION, SODIUM HYDROXIDE, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
4. TANK, NO. 23, POLISH, SEC-BUTYL ALCOHOL, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
5. TANK, NO. 24, PASSIVATION, NITRIC ACID, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
6. TANK, NO. 29, DEOXIDIZER, SULFURIC ACID, 1'-6" L. X 2'-0" W. X 1'-10" H., UNHEATED, VENTED TO APC SYSTEM NO.3.
7. TANK, NO. 30, BRIGHT DIP, SODIUM BISULFATE, HYDROGEN PEROXIDE, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
8. TANK, NO. 31, DESCALE, SULFURIC ACID, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
9. TANK, NO. 38, PNA ETCH, PHOSPHORIC ACID, NITRIC ACID, ACETIC ACID, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
10. TANK, NO. 40, PNA ETCH, PHOSPHORIC ACID, NITRIC ACID, ACETIC ACID, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
11. TANK, NO. 41, PNA ETCH, PHOSPHORIC ACID, NITRIC ACID, ACETIC ACID, 1'-6" L. X 2'-0" W. X 1'-10" H., HEATED, VENTED TO APC SYSTEM NO.3.
12. 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.

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[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 THE TANKS ARE VENTED TO AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.

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

4. ALL TANKS SHALL BE CLEARLY IDENTIFIED AND LABELED WITH THE APPROPRIATE TANK NUMBER AS DESIGNATED IN THE EQUIPMENT DESCRIPTION. THE IDENTIFICATION AND/OR LABELING OF EACH TANK SHALL BE DIRECTLY AFFIXED TO EACH TANK AND SHALL BE CLEARLY VISIBLE AND LEGIBLE.

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

5. ALL TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT. NO CHEMICAL COMPOUNDS LISTED IN RULE 1401, TABLE 1 "TOXIC AIR CONTAMINANTS", AS AMENDED SEPTEMBER 10, 2010 OTHER THAN THOSE INCLUDED IN THE EQUIPMENT DESCRIPTION ON THIS PERMIT SHALL BE USED IN THIS EQUIPMENT.

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

6. AIR SPARGING, RECTIFICATION, AND/OR HEATING SHALL NOT BE CONDUCTED EXCEPT IN TANKS WHERE THESE OPERATIONS ARE SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION. REMOVAL OF SUCH DEVICES FROM THESE TANKS DOES NOT CONSTITUTE A MODIFICATION FOR PERMITTING PURPOSES.

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

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

TANK NO.	CHEMICAL	MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%)	MAXIMUM OPERATING TEMP. IN DEGREES FAHRENHEIT
13	ISOPROPANOL	3.14	130
14	SODIUM HYDROXIDE	6.51	150
21	SODIUM HYDROXIDE	6.51	150
23	SEC-BUTYL ALCOHOL	5.0	120
24	NITRIC ACID	55.03	150
29	SULFURIC ACID	11.51	AMBIENT
30	SODIUM BISULFATE	0.67	110
31	SULFURIC ACID	73.83	150

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TANK NO.	CHEMICAL	MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%)	MAXIMUM OPERATING TEMP. IN DEGREES FAHRENHEIT
38, 40, 41	PHOSPHORIC ACID	51.7	160
	NITRIC ACID	4.81	
	ACETIC ACID	17.20	

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

8. THE TOTAL QUANTITY OF NITRIC ACID USED IN THIS OPERATION SHALL NOT EXCEED 62.5 GALLONS IN ANY CALENDAR MONTH. FOR THE PURPOSE OF THIS CONDITION, THE QUANTITY OF NITRIC ACID USED SHALL BE DETERMINED FROM THE TOTAL VOLUME, WEIGHT PERCENT OF NITRIC ACID AND THE NITRIC ACID CONCENTRATION IN THE HAZARDOUS WASTE.

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

9. 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 AQMD PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:

- A. AT LEAST ONCE PER MONTH, THE CONCENTRATION IN PERCENT BY WEIGHT OF THE COMPOUNDS LISTED IN CONDITION NO. 7.
- B. THE QUANTITY AND COMPOSITION OF EACH MATERIAL ADDED TO EACH TANK DURING REPLENISHMENT.
- C. THE QUANTITY OF NITRIC ACID SENT TO HAZARDOUS WASTE.
- D. MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL RAW MATERIALS CHARGED TO EACH PROCESS TANK AT THIS FACILITY.

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

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

PERMIT TO CONSTRUCT

A/N 523065
Granted as of 12/1/2011

Equipment Description:

GOLD PLATING LINE CONSISTING OF:

1. TANK NO. 1, CLEANING, SODIUM HYDROXIDE, SILICATE COMPOUND, SODIUM SALT, PHOSPHATE SALT, PETROLEUM NAPHTHA, 1'-3" DIA. X 1'-7" H., UNHEATED, VENTED TO AIR POLLUTION CONTROL (APC) SYSTEM NO.1.
2. TANK NO. 1A, CLEANING, SODIUM HYDROXIDE, SILICATE COMPOUND, SODIUM SALT, PHOSPHATE SALT, PETROLEUM NAPHTHA, 3'-7" L. X 1'-6" W. X 1'-10"H., HEATED.
3. TANK NO. 3, ELECTROCLEANER, SODIUM HYDROXIDE, SILICATE COMPOUND, SODIUM SALT, PHOSPHATE SALT, PETROLEUM NAPHTHA, 1'-3" DIA. x 1'-7" H., UNHEATED, WITH A 200 AMPERE RECTIFIER, VENTED TO APC SYSTEM NO.1.
4. TANK NO. 3A, CLEANING, SODIUM HYDROXIDE, SILICATE COMPOUND, SODIUM SALT, PHOSPHATE SALT, PETROLEUM NAPHTHA, 3'-7" L. X 1'-6" W. X 1'-10"H., HEATED.
5. TANK NO. 5, UPPER TANK FOR ACTIVATOR, SULFURIC ACID, ORGANIC/INORGANIC SALTS, 1'-3" DIA. X 1'-7"H., UNHEATED, VENTED TO APC SYSTEM NO.1.
6. TANK NO. 5A, ACID ACTIVATOR, SULFURIC ACID, ORGANIC/INORGANIC ACID, 3'-7" L. X 0'-11" W. X 1'-10"H., UNHEATED.
7. TANK NO. 6, UPPER TANK FOR COPPER, SULFURIC ACID, COPPER SULFATE PENTAHYDRATE, HYDROCHLORIC ACID, METHANOL, POLYGLYCOL, 1'-8" L. X 2'-0" W. X 1'-7"H., UNHEATED, WITH A 150 AMPERE RECTIFIER, VENTED TO APC SYSTEM NO.1.
8. TANK NO. 6A, COPPER PLATE, SULFURIC ACID, COPPER SULFATE PENTAHYDRATE, HYDROCHLORIC ACID, METHANOL, POLYGLYCOL, 3'-7" L. X 1'-8" W. X 1'-10"H., HEATED.
9. TANK NO. 8, UPPER TANK FOR ACTIVATOR, SULFURIC ACID, ORGANIC/INORGANIC SALTS, 1'-3" DIA. X 1'-7" H., UNHEATED, VENTED TO APC SYSTEM NO.1.
10. TANK NO. 8A, ACID ACTIVATOR, SULFURIC ACID, ORGANIC/INORGANIC ACID, 3'-7" L. X 0'-11" W. X 1'-10"H., UNHEATED..
11. TANK NO. 9, 10, 11, 12 UPPER TANK FOR NICKEL I-II-III-IV, NICKEL SULFAMATE, NICKEL BROMIDE, BORIC ACID, 1'-8" L. X 2'-0" W. X 1'-7"H., WITH A 150 AMPERE RECTIFIER, UNHEATED, VENTED TO APC SYSTEM NO.1.
12. TANK NO. 9A, 10A, 11A, 12A NICKEL I-II-III-IV, NICKEL SULFAMATE, NICKEL BROMIDE, BORIC ACID, 3'-7" L. X 4'-10" W. X 1'-10"H., HEATED.

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

13. TANK NO. 14, UPPER TANK FOR ACTIVATOR, SULFURIC ACID, ORGANIC/INORGANIC SALTS, 1'-3" DIA. X 1'-7" H., UNHEATED, VENTED TO APC SYSTEM NO.1.
14. TANK NO. 14A, ACTIVATOR, SULFURIC ACID, ORGANIC/INORGANIC ACID, 3'-7" L. X 0'-11". X 1'-10"H., UNHEATED.
15. TANK NO. 15, UPPER TANK FOR GOLD STRIKE, POTASSIUM GOLD CYANIDE, ALIPHATIC SALT, ORGANIC ACID, POTASSIUM HYDROXIDE, ARSENIC TRIOXIDE, 1'-8" L. X 2'-0" W. X 1'-7"H., WITH A 50 AMPERE RECTIFIER, UNHEATED, VENTED TO APC SYSTEM NO.2.
16. TANK NO. 15A, GOLD STRIKE, POTASSIUM GOLD CYANIDE, ALIPHATIC SALT, ORGANIC ACID, POTASSIUM HYDROXIDE, ARSENIC TRIOXIDE, 3'-7" L. X 1'-8" W. X 1'-10"H., HEATED.
17. TANK NO. 16, UPPER TANK FOR GOLD PLATE I, ORGANIC ACID, OXALIC ACID, NICOTINIC ACID, POTASSIUM HYDROXIDE, 1'-8" L. X 2'-0" W. X 1'-7"H., WITH A 50 AMPERE RECTIFIER, UNHEATED, VENTED TO APC SYSTEM NO.2.
18. TANK NO. 17, UPPER TANK FOR GOLD PLATE II, ORGANIC ACID, OXALIC ACID, NICOTINIC ACID, POTASSIUM HYDROXIDE, 1'-8" L. X 2'-0" W. X 1'-7"H., WITH A 50 AMPERE RECTIFIER, UNHEATED, VENTED TO APC SYSTEM NO.2.
19. TANK NO. 16A, 17A, GOLD PALTE I-II, ORGANIC ACID, OXALIC ACID, NICOTINIC ACID, POTASSIUM HYDROXIDE, 3'-7" L. X 2'-3" W. X 1'-10"H., HEATED.
20. TANK NO. 18, UPPER TANK FOR GOLD PLATE III, ORGANIC ACID, OXALIC ACID, NICOTINIC ACID, POTASSIUM HYDROXIDE, 1'-8" L. X 2'-0" W. X 1'-7"H., WITH A 50 AMPERE RECTIFIER, UNHEATED, VENTED APC SYSTEM NO.2.
21. TANK NO. 19, UPPER TANK FOR GOLD PLATE IV, ORGANIC ACID, OXALIC ACID, NICOTINIC ACID, POTASSIUM HYDROXIDE, 1'-8" L. X 2'-0" W. X 1'-7"H., WITH A 50 AMPERE RECTIFIER, UNHEATED, VENTED TO APC SYSTEM NO.2.
22. TANK NO. 18A, 19A, GOLD PALTE III-IV, ORGANIC ACID, OXALIC ACID, NICOTINIC ACID, POTASSIUM HYDROXIDE, 3'-7" L. X 2'-3" W. X 1'-10"H., HEATED.
23. 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 CONDITIONS AT ALL TIMES.
[RULE 204]

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3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE TANKS (IDENTIFIED IN THE EQUIPMENT DESCRIPTION AS BEING VENTED TO APC) ARE VENTED TO AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.
 [RULE 1303(a)(1)-BACT]

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

5. ALL TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT. NO CHEMICAL COMPOUNDS LISTED IN RULE 1401, TABLE 1 "TOXIC AIR CONTAMINANTS", AS AMENDED SEPTEMBER 10, 2010 OTHER THAN THOSE INCLUDED IN THE EQUIPMENT DESCRIPTION ON THIS PERMIT SHALL BE USED IN THIS EQUIPMENT.
 [RULE 1303(b)(2)-OFFSET, 1401]

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

7. AN IDENTIFICATION TAG OR LABEL SHALL BE AFFIXED TO ALL RECTIFIERS IN A PERMANENT AND CONSPICUOUS POSITION. THE IDENTIFICATION MARKER SHALL BE MAINTAINED IN LEGIBLE CONDITION AND CONTAIN THE FOLLOWING INFORMATION:
 - A. RECTIFIER IDENTIFICATION NUMBER.
 - B. MAXIMUM RECTIFIER AMPERAGE.
 - C. IDENTIFICATION NUMBER(S) OF TANK(S) OPERATED WITH THE RECTIFIER.
 [RULE 1303(b)(2)-OFFSET, 1401]

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

TANK NO.	CHEMICAL	MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%)	MAXIMUM OPERATING TEMP. IN DEGREES FAHRENHEIT
1,3,	SODIUM HYDROXIDE	5.78	AMBIENT
1A,3A	SODIUM HYDROXIDE	5.78	170

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TANK NO.	CHEMICAL	MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%)	MAXIMUM OPERATING TEMP. IN DEGREES FAHRENHEIT
5, 5A, 8, 8A,14,14A	SULFURIC ACID	5.24	AMBIENT
6	SULFURIC ACID	23.76	AMBIENT
6	COPPER COMPOUNDS	3.43	AMBIENT
6	HYDROCHLORIC ACID	0.01	AMBIENT
6	METHANOL	0.08	AMBIENT
6A	SULFURIC ACID	23.76	84
6A	COPPER COMPOUNDS	3.43	84
6A	HYDROCHLORIC ACID	0.01	84
6A	METHANOL	0.08	84
9,10,11,12	NICKEL COMPOUNDS	19.56	AMBIENT
9A,10A,11A,12 A	NICKEL COMPOUNDS	19.56	140
15, 15A	ARSENIC COMPOUNDS	5.0	AMBIENT

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

9. A LOG CONCERNING THE OPERATION OF THIS EQUIPMENT SHALL BE KEPT ON FILE FOR A MINIMUM OF FIVE YEARS. THE PAST TWO YEARS' RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:
- A. THE RECORDS REQUIRED BY THE CONDITIONS IN THIS PERMIT.
 - B. THE CONCENTRATION IN PERCENT BY WEIGHT OF TOTAL NICKEL IN TANK NOS. 9, 9A, 10, 10A, 11, 11A, 12 AND 12A DETERMINED EACH MONTH BY QUANTITATIVE CHEMICAL ANALYSIS.
 - D. THE QUANTITY AND COMPOSITION OF EACH MATERIAL ADDED TO EACH TANK DURING REPLENISHMENT.
 - E. MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS CHARGED TO EACH PROCESS TANK AT THIS FACILITY.

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

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10. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE AQMD RULES, INCLUDING BUT NOT LIMITED TO RULE 1426.
[RULE 1426]

11. THE OPERATOR SHALL REPORT ALL BREAKDOWNS AS REQUIRED BY SCAQMD RULE 430.
[RULE 430]

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

PERMIT TO CONSTRUCT

A/N 523070
Granted as of 12/1/2011

Equipment Description:

AIR POLLUTION CONTROL SYSTEM NO. 1 CONSISTING OF:

1. FUME SCRUBBER, VERTICAL PACKED TYPE, SCRUBAIR SYSTEMS, MODEL SSQV, 2'-6" DIA. X 10'-0" H, WITH 5'-0" DEEP, LANTEC, 3.5" GLOBE PACK POLYPROPYLENE PACKING, AND A 1.5 H.P. WATER RECIRCULATION PUMP.
2. EXHAUST SYSTEM WITH KIMRE COMPOSIT 5 MICRON MIST ELIMINATOR AND A 7.5 H.P. BLOWER VENTING TANKS 1, 3, 5, 6, 8, 9, 10, 11, 12, AND 14 FROM THE GOLD PLATING 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 EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT THAT IT VENTS IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A FLOW METER FOR THE SCRUBBER TO ACCURATELY INDICATE, IN GALLONS PER MINUTE, THE FLOW OF SCRUBBING SOLUTION TO THE NOZZLES.
[RULE 1303(a)(1)-BACT]
5. NOT LESS THAN 30 GPM OF RECIRCULATING WATER SHALL BE SUPPLIED TO THE SCRUBBER SPRAY NOZZLES WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
6. A PH INDICATOR SHALL BE INSTALLED TO MONITOR THE PH OF THE SCRUBBER SOLUTION. THE CIRCULATING WATER TO THE SCRUBBER SHALL BE MAINTAINED AT PH 8 OR HIGHER.
[RULE 1303(a)(1)-BACT]
7. THE OWNER/OPERATOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR THE PACKED BED SCRUBBER LISTED BELOW:

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

- A. QUARTERLY VISUAL INSPECTION OF THE DEVICE TO ENSURE THAT THE SPRAY NOZZLES ARE FUNCTIONING PROPERLY, THERE IS PROPER DRAINAGE, NO UNUSUAL BUILDUP ON THE PACKED BED, AND NO EVIDENCE OF CHEMICAL ATTACK THAT AFFECTS THE STRUCTURAL INTEGRITY OF THE DEVICE
 - B. QUARTERLY VISUAL INSPECTION OF THE DUCTWORK FROM THE TANK(S) TO THE CONTROL DEVICE TO ENSURE THERE ARE NO LEAKS.
 - C. PERFORM WASHDOWN OF THE COMPOSITE MESH PAD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - D. ADD FRESH MAKEUP WATER TO THE PACKED BED WHENEVER MAKEUP IS NEEDED.
[RULE 1303(a)(1)-BACT]
8. THE OWNER/OPERATOR SHALL MAINTAIN INSPECTION AND MAINTENANCE RECORDS FOR THE AIR POLLUTION CONTROL SYSTEM 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 AIR POLLUTION CONTROL SYSTEM OR PARAMETER MONITORING SYSTEM.
 - E. ANY ACTIONS TAKEN TO CORRECT DEFICIENCIES FOUND DURING THE INSPECTION.
[RULE 1303(a)(1)-BACT]
9. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

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

Emissions and Requirements:

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC, FRANK SORENSON**

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1155

PM: 0 PERCENT OPACITY, RULE 1155

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

PERMIT TO CONSTRUCT

A/N 523072
Granted as of 12/1/2011

Equipment Description:

AIR POLLUTION CONTROL SYSTEM NO. 2 CONSISTING OF:

1. FUME SCRUBBER, VERTICAL PACKED TYPE, SCRUBAIR SYSTEMS, MODEL SSQV, 2'-0" DIA. X 9'-0" H, WITH 3'-0" DEEP, LANTEC, 3.5" GLOBE PACK POLYPROPYLENE PACKING, AND A 1.0 H.P. WATER RECIRCULATION PUMP.
2. EXHAUST SYSTEM WITH KIMRE COMPOSIT 5 MICRON MIST ELIMINATOR AND A 5.0 H.P. BLOWER VENTING TANKS 15, 16, 17, 18, AND 19 FROM THE GOLD PLATING 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 EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT THAT IT VENTS IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A FLOW METER FOR THE SCRUBBER TO ACCURATELY INDICATE, IN GALLONS PER MINUTE, THE FLOW OF SCRUBBING SOLUTION TO THE NOZZLES.
[RULE 1303(a)(1)-BACT]
5. NOT LESS THAN 20 GPM OF RECIRCULATING SCRUBBING SOLUTION SHALL BE SUPPLIED TO THE SCRUBBER SPRAY NOZZLES WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
6. A PH INDICATOR SHALL BE INSTALLED TO MONITOR THE PH OF THE SCRUBBER SOLUTION. THE CIRCULATING WATER TO THE SCRUBBER SHALL BE MAINTAINED AT PH 8 OR HIGHER.
[RULE 1303(a)(1)-BACT]
7. THE OWNER/OPERATOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR THE PACKED BED SCRUBBER LISTED BELOW:

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

- A. QUARTERLY VISUAL INSPECTION OF THE DEVICE TO ENSURE THAT THE SPRAY NOZZLES ARE FUNCTIONING PROPERLY, THERE IS PROPER DRAINAGE, NO UNUSUAL BUILDUP ON THE PACKED BED, AND NO EVIDENCE OF CHEMICAL ATTACK THAT AFFECTS THE STRUCTURAL INTEGRITY OF THE DEVICE
 - B. QUARTERLY VISUAL INSPECTION OF THE DUCTWORK FROM THE TANK(S) TO THE CONTROL DEVICE TO ENSURE THERE ARE NO LEAKS.
 - C. PERFORM WASHDOWN OF THE COMPOSITE MESH PAD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - D. ADD FRESH MAKEUP WATER TO THE PACKED BED WHENEVER MAKEUP IS NEEDED.
[RULE 1303(a)(1)-BACT]
8. THE OWNER/OPERATOR SHALL MAINTAIN INSPECTION AND MAINTENANCE RECORDS FOR THE AIR POLLUTION CONTROL SYSTEM 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 AIR POLLUTION CONTROL SYSTEM OR PARAMETER MONITORING SYSTEM.
 - E. ANY ACTIONS TAKEN TO CORRECT DEFICIENCIES FOUND DURING THE INSPECTION.
[RULE 1303(a)(1)-BACT]
9. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

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

Emissions and Requirements:

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC, FRANK SORENSON**

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1155

PM: 0 PERCENT OPACITY, RULE 1155

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

PERMIT TO CONSTRUCT

A/N 523073
Granted as of 12/1/2011

Equipment Description:

AIR POLLUTION CONTROL SYSTEM NO. 3 CONSISTING OF:

1. NOX SCRUBBER, VERTICAL PACKED TYPE, SCRUBAIR SYSTEMS, MODEL SSQV, 3'-0" DIA. X 11'-6" H, WITH 6'-0" DEEP, LANTEC, 3.5" LANPAC XL POLYPROPYLENE PACKING, AND A 5.0 H.P. WATER RECIRCULATION PUMP.
2. EXHAUST SYSTEM WITH KIMRE COMPOSIT 5 MICRON MIST ELIMINATOR AND A 10.0 H.P. BLOWER VENTING TANKS 13, 14, 21, 23, 24, 29, 30, 31, 38, 40, 41 AND ASSOCIATED RINSE TANKS FROM THE DEBURRING 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 EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT THAT IT VENTS IS IN OPERATION.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSETS]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A FLOW METER FOR THE SCRUBBER TO ACCURATELY INDICATE, IN GALLONS PER MINUTE, THE FLOW OF SCRUBBING SOLUTION TO THE NOZZLES.
[RULE 1303(a)(1)-BACT]
5. NOT LESS THAN 100 GPM OF RECIRCULATING SCRUBBING SOLUTION SHALL BE SUPPLIED TO THE SCRUBBER SPRAY NOZZLES WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
6. A PH INDICATOR SHALL BE INSTALLED TO MONITOR THE PH OF THE SCRUBBER SOLUTION. THE CIRCULATING SCRUBBING SOLUTION TO THE SCRUBBER SHALL BE MAINTAINED AT PH 12.5 OR HIGHER.
[RULE 1303(a)(1)-BACT]

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

7. THE OPERATOR SHALL INJECT SODIUM SULFIDE OR SODIUM HYDROGEN SULFIDE INTO THE SCRUBBING SOLUTION OF THE SCRUBBER.
[RULE 1303(a)(1)-BACT]
8. THE OPERATOR SHALL INSTALL AND MAINTAIN AN OXIDATION/REDUCTION POTENTIAL (ORP) METER TO ACCURATELY INDICATE, IN MILLIVOLTS, THE OXIDATION/REDUCTION POTENTIAL OF THE SCRUBBING SOLUTION.
[RULE 1303(a)(1)-BACT]
9. THE OXIDATION/REDUCTION POTENTIAL OF THE SCRUBBING SOLUTION SHALL NOT BE LESS THAN 350 MILLIVOLTS.
[RULE 1303(a)(1)-BACT]
10. 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 THAT THE SPRAY NOZZLES ARE FUNCTIONING PROPERLY, THERE IS PROPER DRAINAGE, NO UNUSUAL BUILDUP ON THE PACKED BED, AND NO EVIDENCE OF CHEMICAL ATTACK THAT AFFECTS THE STRUCTURAL INTEGRITY OF THE DEVICE
 - B. QUARTERLY VISUAL INSPECTION OF THE DUCTWORK FROM THE TANK(S) TO THE CONTROL DEVICE TO ENSURE THERE ARE NO LEAKS.
 - C. PERFORM WASHDOWN OF THE COMPOSITE MESH PAD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - D. ADD FRESH MAKEUP WATER TO THE PACKED BED WHENEVER MAKEUP IS NEEDED.
[RULE 1303(a)(1)-BACT]
11. THE OWNER/OPERATOR SHALL MAINTAIN INSPECTION AND MAINTENANCE RECORDS FOR THE AIR POLLUTION CONTROL SYSTEM 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 AIR POLLUTION CONTROL SYSTEM OR PARAMETER MONITORING SYSTEM.
 - E. ANY ACTIONS TAKEN TO CORRECT DEFICIENCIES FOUND DURING THE INSPECTION.
[RULE 1303(a)(1)-BACT]
12. 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 SORENSEN ENGINEERING INC, FRANK SORENSON

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

13. THE OPERATOR OF THIS EQUIPMENT SHALL CONDUCT A SOURCE TEST UNDER THE FOLLOWING CONDITIONS:
- A. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 45 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY THE DISTRICT PRIOR TO THE SOURCE TEST. THE PROTOCOL SHALL INCLUDE THE PROPOSED OPERATING CONDITIONS OF THE TEST, THE IDENTITY OF THE TESTING LABORATORY, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
 - B. A SMOKE TEST SHALL BE CONDUCTED PRIOR TO THE ACTUAL SOURCE TEST TO DEMONSTRATE THAT NO FUGITIVE EMISSIONS WILL OCCUR DURING OPERATION.
 - C. THE SOURCE TEST SHALL BE CONDUCTED BY FEBRUARY 28, 2014 UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - D. THE SOURCE TEST SHALL BE CONDUCTED WHILE TANK NOS. 38, 40 AND 41 VENTED TO THIS EQUIPMENT ARE OPERATED AT MAXIMUM LOAD.
 - E. DURING THE TEST, THE TYPE, SIZE, AND QUANTITY OF THE PARTS BEING PROCESSED, THE WEIGHT CONCENTRATIONS OF THE ACIDS IN THE ABOVE TANKS, THE PRESSURE DROP ACROSS THE SCRUBBER, NOX AND PM INLET AND OUTLET, pH, ORP POTENTIAL IN mV, AND THE SCRUBBERS EFFICIENCY SHALL BE MONITORED AND REPORTED IN THE SOURCE TEST REPORT.
 - F. THE DISTRICT ENGINEER SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 10 CALENDAR DAYS PRIOR TO THE TEST.
 - G. THE SOURCE TEST SHALL COMPLY WITH THE ATTACHED DISTRICT "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES" PURSUANT TO DISTRICT RULE 217.
 - H. THE SOURCE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST METHOD OUTLINED IN THE DISTRICT RULES AND REGULATIONS.
 - I. THE SOURCE TEST SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED TESTING LABORATORY PURSUANT TO DISTRICT RULE 304.
 - J. THE SOURCE TEST REPORT SHALL INCLUDE RESULTS OF THE SMOKE TEST, THE SOURCE TEST, THE OPERATING PARAMETERS OUTLINED IN THE PERMIT CONDITIONS. THE REPORT SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 CALENDAR DAYS AFTER THE SOURCE TEST DATE.

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

Periodic Monitoring:

14. THE OPERATOR SHALL DETERMINE AND RECORD THE FLOW RATE OF THE SCRUBBING

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

SOLUTION ONCE EVERY DAY.
[RULE 3004(a)(4)]

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

Emissions and Requirements:

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

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

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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 COATING.

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 COATING.

[RULE 3004 (a) (4)]

Emissions And Requirements:

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

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

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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 REGULATION:

VOC: RULE 109

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, BOILER, WATER HEATER > 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 SORENSEN ENGINEERING INC, FRANK SORENSON

SECTION E: ADMINISTRATIVE CONDITIONS

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

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

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

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SECTION E: ADMINISTRATIVE CONDITIONS

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
 - a. The results of the source test.

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SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief description of the equipment tested.
 - c. Operating conditions under which the test was performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
 11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC, FRANK SORENSON**

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC, FRANK SORENSON**

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

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC, FRANK SORENSON**

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 SORENSEN ENGINEERING INC, FRANK SORENSON

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
SORENSEN ENGINEERING INC, FRANK SORENSON**

**SECTION J: AIR TOXICS
[40CFR 63 Subpart T, #30 06-05-1995]**

**BATCH VAPOR CLEANING MACHINES WITHOUT A SOLVENT/AIR INTERFACE
COMPLYING WITH OVERALL EMISSION LIMIT**

1. The operator shall comply with all applicable requirements and standards of Subpart T and Subpart A - General Provisions by the date(s) specified in these subparts.
2. The operator shall comply with the alternative standards of 40 CFR 63.464 and the 3-month rolling average monthly emission limit specified in Section D or H for this device.
3. The operator shall comply with the emission calculation and measuring requirements of 40 CFR 63.465(b) and (c).
4. The operator shall comply with all applicable recordkeeping and reporting required by 40 CFR 63.10, 63.467 and 63.468. All records and reports, including data, calculations and any supporting documentation shall be prepared in a format which is acceptable to the AQMD.
5. The operator shall file application(s) and be granted approval by the AQMD prior to the installation/modification of equipment to comply with this NESHAP or implementing equivalent methods of control as allowed by 40 CFR 63.469.
6. The operator shall submit all reports, notifications, plans, submittals and other communications required by Subpart T or Subpart A to the AQMD and, unless notified to the contrary by AQMD or US EPA, to US EPA Region IX. (See Sections E and K of this permit for addresses.)

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

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

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

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

Payment of Fees

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

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

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

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

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

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

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

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

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

SECTION K: TITLE V Administration

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

15. Nothing in this permit or in any permit shield can alter or affect:
 - (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]

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

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

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.

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SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
 - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC, FRANK SORENSON

SECTION K: TITLE V Administration

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

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

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

PERIODIC MONITORING

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

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC, FRANK SORENSON

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations

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

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 109	5-2-2003	Federally enforceable
RULE 1113	7-13-2007	Federally enforceable
RULE 1113	9-6-2013	Non federally enforceable
RULE 1122	10-1-2004	Federally enforceable
RULE 1122	5-1-2009	Non federally enforceable
RULE 1146.2	1-7-2005	Non federally enforceable
RULE 1146.2	1-9-1998	Federally enforceable
RULE 1155	12-4-2009	Non federally enforceable
RULE 1171	2-1-2008	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1401	12-7-1990	Non federally enforceable
RULE 1401	9-10-2010	Non federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	5-3-2013	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable

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RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 3002	11-5-2010	Non federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	11-5-2010	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	11-5-2010	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	6-1-2012	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 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 63 Subpart T	5-3-2007	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 63 Subpart T, #30	6-5-1995	Federally enforceable

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC, FRANK SORENSON**

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

NONE

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC. FRANK SORENSON

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

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

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

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

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

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

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

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

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

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

**FACILITY PERMIT TO OPERATE
SORENSEN ENGINEERING INC. FRANK SORENSON**

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

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

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

FACILITY PERMIT TO OPERATE SORENSEN ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 09-06-2013]

- (1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, market, manufacture, blend, repack, apply, store at a worksite, or solid the application of any architectural coating within in the District:
 - (A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or
 - (B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).
- (2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 09-06-2013] TABLE OF STANDARDS 1 VOC LIMITS

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

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

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 09-06-2013]

Recycled Coatings		250			
Roof Coatings		50			
Roof Coatings, Aluminum		100			
Roof Primers, Bituminous		350			
Rust Preventative Coatings	400	100			
Sacrificial Anti-Graffiti Coatings		100		50	
Shellac					
Clear		730			

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 09-06-2013]

COATING CATEGORY	Ceiling Limit ¹	Current Limit ²	Effective Date		
			7/1/08	1/1/12	1/1/14
Pigmented		550			
Specialty Primers		100			
Stains	350	100			
Stains, Interior	250	250			
Stone Consolidant		450			
Swimming Pool Coatings					
Repair		340			
Other		340			
Traffic Coatings		100			
Waterproofing Sealers		100			
Waterproofing Concrete/Masonry Sealers		100			
Wood Preservatives		350			

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

TABLE OF STANDARDS 1 (cont.) VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

TABLE OF STANDARDS 2 VOC LIMITS FOR COLORANTS

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

COLORANT ADDED TO	Limit ⁴
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

4. Effective January 1, 2014.

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals			
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)		
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	100 (0.83)		
(B) Packaging	25 (0.21)		
(iv) Lithographic (Offset) or Letter Press Printing			
(A) Roller Wash, Blanket Wash, & On-Press Components			
(I) Newsprint	100 (0.83)		

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(II) Other Substrates	500 (4.2)	100 (0.83)	
(B) Removable Press Components	25 (0.21)		
(v) Screen Printing	500 (4.2)	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)		
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)	
(B) Repair and Maintenance Cleaning		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals		
(A) Tools, Equipment, & Machinery	800 (6.7)	
(B) General Work Surfaces	600 (5.0)	
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)	
(D) Cleaning of Ink Application Equipment		
(i) General	25 (0.21)	
(ii) Flexographic Printing	25 (0.21)	
(iii) Gravure Printing		
(A) Publication	100 (0.83)	
(B) Packaging	25 (0.21)	
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components	100 (0.83)	

**FACILITY PERMIT TO OPERATE
 SORENSON ENGINEERING INC. FRANK SORENSON**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1171 05-01-2009]**

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(B) Removable Press Components	25 (0.21)	
(v) Screen Printing	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)	

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445

FACILITY PERMIT TO OPERATE SORENSON ENGINEERING INC. FRANK SORENSON

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter” Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148

**FACILITY PERMIT TO OPERATE
 SORENSON ENGINEERING INC. FRANK SORENSON**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter” Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
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