



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

T015499

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: OCTOBER 2026

OWNER OF OPERATOR (Co.#710)

High Tech Etch
17469 Lemon Street
Hesperia, CA 92345

EQUIPMENT LOCATION (Fac.#3576)

High Tech Etch - 17469 Lemon
17469 Lemon Street
Hesperia, CA 92345

Description:

DIP TANK AND DRYING LINE, ALUMINUM MASKANT (BUILDING B) consisting of: A custom designed and built dip tank measuring 108" L x 47" W x 36" D and normally containing between 681 to 791 gallons of perchloroethylene-based maskant solution kept between 70 degrees to 90 degrees Fahrenheit. This tank has an internal 5 kW(e) electric heater, a mixer, a pump and filter assembly, and an electric lid opener/closer.

EQUIPMENT

Capacity	Equipment Description
1000	1,000 gallon dip tank

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rule 204]

Fee Schedule: 5 (a)

Rating: 1000 gallons

SIC: 3479

SCC: 30901501

Location/UTM(Km):
473E/3812N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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By: **COPY**
Brad Poiriez
Executive Director

2. This facility shall be operated and maintained in compliance with all applicable District Rules, including but not limited to, District Rule 442 - Usage of Solvents, and 1118 - Aerospace Assembly, Rework and Component Manufacturing Operations.
[District Rules 204, 442 and 1118]
3. This equipment shall not be operated unless it is vented to the solvent vapor recovery system under MDAQMD permit no. C015497.
[District Rules 1320 and 1520]
4. This equipment shall operate concurrently with the solvent vapor recovery system permitted under MDAQMD permit no. C015497. In the event of a malfunction of any emissions related part of this operation or associated control equipment, or in a natural gas shortage or curtailment episode, this operation must be shut down as soon as safely possible and shall not be restarted until all malfunctions have been corrected and/or approved fuel supply has been restored. Equipment breakdowns shall be reported to the District in accordance with District Rule 430.
[District Rule 430]
5. Only mechanized dipping or Hand Application methods, as defined by District Rule 102, shall be used in this area unless prior written approval is obtained from the District.
[District Rules 1118 and 1320 (T-BACT: Class and Category)]
6. This dip tank shall only be used to apply chemical milling maskant to aluminum substrates.
[District Rules 204, 1118, and 1320 (T-BACT: Class and Category)]
7. This facility shall only use Aerospace Materials that comply with the VOC limits under District Rule 1118(C)(1)(a), unless VOC emission control equipment is employed to reduce emissions by at least 95 percent (95%), by weight, or by reducing the output of the air pollution control device to less than 50 ppm calculated for carbon with no dilution and the owner/operator demonstrates at least a 90 percent (90%), by weight, collection efficiency. Please note: Perchloroethylene is not currently classified as a VOC.
[District Rule 1118]
8. This facility shall not use VOC-containing materials for cleaning or clean-up, excluding Coating stripping and equipment cleaning unless:
- The VOC composite partial pressure is 45 mm Hg or less at a temperature of 20°C (68°F); or,
 - The material contains 200 grams or less of VOC per liter of material, as applied.
- [District Rule 1118(C)(2)(a)]
9. This facility shall not use VOC-containing strippers on Aerospace Components, unless:
- The stripper contains less than 300 grams of per liter of Material (2.5 pounds per gallon) of VOC content; or,
 - The VOC composite partial pressure is 9.5 mm Hg (0.18 psia) or less, at 20°C (68 °F).
- [District Rule 1118(C)(2)(b)]
10. Cleaning solvents used in Hand-Wipe Cleaning Operations shall:
- Meet the definition of Aqueous Cleaning Solvent; or,
 - The material has a VOC composite pressure of 45 mm Hg or less, at 20 °C (68 °F) or (3) qualify for exemption under subsection (G)(12) of Rule 1118.
- [District Rule 1118(C)(2)(c)]
11. Flush cleaning of aerospace parts, assemblies, and coating unit components using VOC-containing solvents must be emptied into an enclosed container or collection system that is kept closed when not in use or captured on wipers and disposed of in accordance with Rule 1118, subsection (C)(3)(a). Aqueous and Semiaqueous Cleaning Solvents are excluded from these requirements.
[District Rule 1118(C)(2)(d)]
12. This facility must keep containers that store VOC and/or HAP-containing materials closed or covered except during extraction or introduction of material for mixing, use, or storage. Bulk VOC and/or HAP-containing material storage tanks may be vented as necessary

for safety.

[District Rules 204 and 1118(C)(3)(a)]

13. After being dipped in this tank, all parts shall be suspended above the tank until no maskant solution is observed dripping back into the tank.

[District Rules 204 and 1118]

14. The parts being dipped into this tank shall be lowered at a slow enough rate to prevent any maskant splashing out of the tank. Furthermore, the tank shall have a minimum freeboard of 6 inches at all times.

[District Rule 1302]

15. The facility shall use no more than 1,500 gallons of maskant per day (midnight to midnight). Furthermore, this facility shall use no more than 10,000 gallons of maskant per calendar year.

[District Rules 204 and 1320]

16. The facility shall not discharge VOCs into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes that are not subject to District Rule 1118, in excess of 1190 pounds per month. Furthermore, this facility shall not discharge into the atmosphere a non-VOC organic solvent in excess of 600 pounds per day, as calculated on a thirty (30) day rolling average. This includes, but is not limited to, coatings, modifiers, sealants, release agents, polymerization initiators, pure monomers, and catalysts.

[District Rule 442(C)(1)]

17. The owner/operator shall maintain a log for the facility, which, at a minimum, contains the information specified below:

a. Current list of manufacturer and type of all materials used in the chemical preparation of aerospace component operations

(preparation, treatment, cleanup or other);

b. Volatile Organic Compound (VOC), Hazardous Air Pollutant (HAP), and Toxic Air Contaminant (TAC) contents for each material used in the chemical preparation of aerospace components in pounds per gallon, grams per liter, percent (weight/weight), etc.;

c. Daily records of all material usage, including type, quantity, and VOC, HAP, and TAC content of all material used and stored. These records shall be summarized cumulatively on a monthly basis and summarized cumulatively on a calendar year basis;

d. Safety Data Sheets (SDS) for all materials used at this facility; and,

e. Description of all repairs made to the tank, tank heater, mixer, or pump and filter assembly.

These records shall be retained on-site for a minimum period of five (5) years and be made available for review upon request by District, State or Federal personnel.

[District Rules 442, 1118, 1303 and 1320]

18. All containers of maskant, solvent, and surface preparation solution shall be sealed with tight-fitting covers when not in use.

[District Rules 442 and 1118]

19. This equipment is prohibited from operating concurrently with the equipment under MDAQMD permit no. T012298. A cancellation request for the equipment under MDAQMD permit no. T012298 must be submitted prior to commencement of operation of this equipment. All cancellation requests may be submitted electronically to engineering@mdaqmd.ca.gov.

[District Rules 204, 1320 and 1520]

20. This dip tank may only be used with perchloroethylene-based maskant, with a perchloroethylene content not greater than 9.345 lb/gal. Before any other non-perchloroethylene based maskant or a perchloroethylene based maskant with a perchloroethylene content of greater than 9.345 lb/gal may be used, the facility is required to submit to the District an application to modify the permit, which may require a Health Risk Assessment (HRA). In addition, public notice and/or a commenting period may be required.

[District Rule 1320]

21. Pursuant to 40 CFR 63 subpart HHHHHH, this facility shall not spray apply coatings to metal and plastic surfaces that contain compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd); nor, conduct any paint stripping operations on any substrate that use methylene chloride (MeCl)-containing paint stripping formulations. Contact the MDAQMD for conditions if this facility will use coatings containing these compounds and/or MeCl for additional permits requirements.

[40 CFR 63, Subpart HHHHHH]

22. The entire facility shall not emit any of the Regulated Pollutants listed below in excess of the following limits in any consecutive 12 month period to remain below the USEPA's Synthetic Minor - 80% (SM-80) threshold:

- a. Oxides of Nitrogen (NOx): 20 tons per consecutive twelve (12) month period, measured as NO₂;
- b. Oxides of Sulfur (SOx): 20 tons per consecutive twelve (12) month period;
- c. Volatile Organic Compounds (VOC): 20 tons per consecutive twelve (12) month period;
- d. Carbon Monoxide (CO): 80 tons per consecutive twelve (12) month period;
- e. Hydrogen Sulfide (H₂S): 8 tons per consecutive twelve (12) month period;
- f. Lead (Pb): 0.48 tons per consecutive twelve (12) month period;
- g. Particulate Matter 10 microns and less (PM₁₀): 14.5 tons per consecutive twelve (12) month period;
- h. Any single Hazardous Air Pollutant (HAP): 8 tons per consecutive twelve (12) month period; and,
- i. All HAPs combined: 20 tons per consecutive twelve (12) month period.

Compliance with these limits shall be demonstrated through the submission of a facility-wide Comprehensive Emission Inventory (CEI) for all emitted Regulated Air Pollutants. Exceedance of these emission limits may trigger offsets, BACT, National Emission Standards for Hazardous Air Pollutants (NESHAP), and/or require submission of a Title V permit application.

[District Rules 1302 and 1303]

23. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b); H&S Code 39607 & 44341-44342; 17 CCR 93400 et seq.; and 40 CFR 51, Subpart A]