



## 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

B015083

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: JULY 2025**

#### OWNER OF OPERATOR (Co.#3036)

Mayhem Metal Works  
10878 E Avenue  
Hesperia, CA 92345

#### EQUIPMENT LOCATION (Fac.#4479)

Mayhem Metal Works  
10878 E Avenue  
Hesperia, CA 92345

#### Description:

PLASMA CUTTING TABLE consisting of: Cutting Table equipped with Hypertherm HPR130XD plasma cutter.

#### CONDITIONS:

1. This equipment shall be operated and maintained in strict accord 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]

2. The owner/operator shall not use the plasma cutter unless it is performed over a properly maintained and functioning water cutting table.

[District Rule 1320]

3. The owner/operator shall use the plasma cutter unless the water cutting table contains sufficient water to minimize fugitive emissions from the plasma cutting process.

[District Rule 1320]

Fee Schedule: 3 (a)

Rating: 21.5kVA

SIC: 3499

SCC: 30905900

Location/UTM(Km): 474E/3811N

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**  
Air Pollution Control Officer

4.Visible emissions from this facility shall not exceed an opacity equal to, or greater than, twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor.

[District Rule 401]

5.The owner/operator may on use the plasma cutter to cut mild steel only. The owner/operator must contact the MDAQMD prior to cutting any other type of metal with this equipment. Type of material cut requires submission of a MDAQMD permit application and may require a Health Risk Assessment.

[District Rule 1320]

6.The owner/operator shall limit plasma cutting to 1,000,000 linear inches of mild steel per year with a maximum thickness of 3/4". Throughput increase requires submission of a MDAQMD permit application and may require a Health Risk Assessment.

[District Rule 1320]

7.Store and dispose of solid material generated from proper operation and maintenance of the table in closed leak-tight containers that prevent the release of Fugitive Dust. Water generated from use of the table and/or cleaning the table shall be captured in leak-tight containers. The owner/operator may allow water to evaporate but is required to contain all metal particulate within the leak-tight container.

[District Rule 1320]

8.The owner/operator shall maintain a daily operation log, on-site for at least two (2) years, and make available to District personnel on request. This log shall contain, as a minimum:

- a. SDS for material cut; and
- b. Total cutting time (minutes) each time the plasma cutter is used; and,
- c. Total linear inches cut of mild steel each time the plasma cutter is used; and,
- d. Thickness (inches) of material cut.

[District Rule 1320]

9.This facility is subject to 40 CFR 63, Subpart XXXXXX - National Emission Standard for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories and must comply with all requirements of this regulation as applicable.

10.This facility uses material containing MFHAP and must operate in compliance with the applicable provisions of this NESHAP [40 CFR 63.11515(b)]. Material containing MFHAP means a material containing one or more MFHAP. Any material that contains cadmium, chromium, lead, or nickel in amounts greater than or equal to 0.1 percent by weight (as the metal), and contains manganese in amounts greater than or equal to 1.0 percent by weight (as the metal), as shown in formulation data provided by the manufacturer or supplier, such as the Material Safety Data Sheet for the material, is considered to be a material containing MFHAP.

11.This facility must not conduct any dry abrasive blasting as defined under 40 CFR 63.11522. Dry blasting means cleaning, polishing, conditioning, removing or preparing a surface by propelling a stream of abrasive material with compressed air against the surface. Hydroblasting, wet abrasive blasting, or other abrasive blasting operations which employ liquids to reduce emissions are not dry abrasive blasting.

[40 CFR 63.11513(a)]

12.The owner/operator must ensure that all machining conducted at this facility is done in a manner to minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable; and operate all equipment associated with machining according to manufacturer's instructions. Machining means dry metal turning, milling, drilling, boring, tapping, planing, broaching, sawing, cutting, shaving, shearing, threading, reaming, shaping, slotting, hobbing, and chamfering with machines. Shearing operations cut materials into a desired shape and size, while forming operations bend or conform materials into specific shapes. Cutting and shearing operations include punching, piercing, blanking, cutoff, parting, shearing and trimming. Forming operations include bending, forming, extruding, drawing, rolling, spinning, coining, and forging the metal. Processes specifically excluded are hand-held devices and any process employing fluids for lubrication or cooling.

[40 CFR 63.11513(b)]

13.This facility must not conduct any dry grinding or polishing with machines as defined under 40 CFR 63.11522. Dry grinding and

polishing with machines means grinding or polishing without the use of lubricating oils or fluids in fixed or stationary machines. Hand grinding, hand polishing, and bench top dry grinding and dry polishing are not included under this definition.  
[40 CFR 63.11513(c)]

14.This facility must not conduct any spray painting that contains MFHAP.  
[40 CFR 63.11513(d)]

15.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; and 40 CFR 51, Subpart A]