



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

B015026

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: FEBRUARY 2027

OWNER OF OPERATOR (Co.#2742)

Madison Industries, Inc.
2961 West MacArthur Blvd., Suite 211
Santa Ana, CA 92704

EQUIPMENT LOCATION (Fac.#4446)

Madison Industries, Inc.
17151 Darwin Avenue
Hesperia, CA 92345

Description:

WELDING/MACHINING/GRINDING OPERATIONS, STRUCTURAL METAL FABRICATION consisting of: Cutting, machining, grinding, sanding and welding of structural metal, containing Metal Fabrication and Finishing Hazardous Air Pollutants (MFHAP). *Please note: There are two (2) welding fume extractors manufactured by Fume Extractor, model FRED-JR, located at this facility. These are used for CALOSHA employee protection purposes, and are not required for air quality purposes.

CONDITIONS:

1. This equipment shall only be operated and maintained in strict accordance the with manufacturer's/supplier's recommendations and/or sound engineering principles which produce the minimum emissions of contaminants. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below. [District Rule 204 and 40 CFR 63.11516]

2. 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, due to the potential to emit Metal Fabrication or Finishing Metal HAP (MFHAP), defined to the be compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form, except for lead.

Materials that contain MFHAP are defined to be materials that contain greater than 0.1 percent for carcinogens, as defined by OSHA at 29 CFR 1910.1200(d)(4), and greater than 1.0 percent for noncarcinogens. For the MFHAP, this corresponds to materials that contain cadmium, chromium, lead, or nickel in amounts greater than or equal to 0.1 percent by weight (of the metal), and materials that contain

Fee Schedule: 3 (a)

Rating: 22 kVA

SIC: 3499

SCC: 30900500

Location/UTM(Km):
473E/3814N

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.

Madison Industries, Inc.
17201 Darwin Avenue
Hesperia, CA 92345

By: **COPY**
Eldon Heaston
Air Pollution Control Officer

manganese in amounts greater than or equal to 1.0 percent by weight (of the metal), as shown in formulation data provided by the manufacturer or supplier, such as the Safety Data Sheet (SDS) for the material. This facility must comply with all applicable requirements of this regulation.

[40 CFR 63, Subpart XXXXXX]

3. The owner/operator must submit an initial notification via email to reporting@mdaqmd.ca.gov within 120 days of startup of operations, pursuant to 40 CFR 63.11519(a)(i). The initial notification must include the following information:

- a. Name, address, telephone number and email address of the owner/operator;
- b. Address (physical location) of the affected source;
- c. Identification of the relevant standard (40 CFR Part 63, Subpart XXXXXX); and,
- d. A brief description of the type of operation (i.e. fabricated structural metal manufacturing), number and type of processes, and the number of workers usually employed.

[40 CFR 63.11519(a)(1)]

4. Annual certification and compliance reports must be submitted via email to reporting@mdaqmd.ca.gov, no later than January 31 of each calendar year. The information within the reporting period will be based on the period of January 1 - December 31 of the previous year. The annual certification and compliance reports must include the following information:

- a. Company name and address;
- b. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
- c. Date of report and beginning and ending dates of the reporting period (The reporting period is the 12-month period ending on December 31);
- d. Date of every visual determination of fugitive emissions which resulted in detection of visible emissions and description of corrective actions taken subsequent to the detection and date;
- e. Date and results of the follow-up visual determination of fugitive emissions performed after corrective actions; and,
- f. An exceedance report for each instance in which the average opacity during a visual determination exceeded 20 percent, in accordance with condition #14.

[40 CFR 63.11519(b)(1)]

5. This facility shall only use 71T type welding consumables. Total welding consumable (electrodes, rods, wires, etc.) usage shall not exceed 10,000 lb/year. This limitation includes consumables from all welding equipment and types at this facility.

[District Rules 1302 and 1320; 40 CFR 63.11516(f)(2)]

6. When machining operations, as defined by 40 CFR 63.11522, are being performed, the owner/operator shall take all necessary measures to minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable. Compliance with this requirement may be demonstrated by maintaining records of, and complying with, written Standard Operating Procedures (or equivalent) that describes how excess dust is reduced onsite.

[40 CFR 63.11516(b)]

7. When dry grinding and polishing equipment is in operation, emissions must be captured and vented to the filtration control device under MDAQMD permit no. C015027. Additionally, the owner/operator shall take all necessary measures to minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable.

[District Rule 1320; 40 CFR 63.11516(c)]

8. The owner/operator must implement one or more of the following management practices to minimize emissions of MFHAP, as practicable, while maintaining the required welding quality through the application of sound engineering judgement. The management practice(s) implemented onsite must be documented within written Standard Operating Procedures (or equivalent):

- a. Use welding processes with reduced fume generation capabilities (e.g., gas metal arc welding (GMAW)--also called metal inert gas welding (MIG));
- b. Use welding process variations (e.g., pulsed current GMAW), which can reduce fume generation rates;
- c. Use welding filler metals, shielding gases, carrier gases, or other process materials which are capable of reduced welding fume generation;
- d. Optimize welding process variables (e.g., electrode diameter, voltage, amperage, welding angle, shield gas flow rate, travel speed) to reduce the amount of welding fume generated; or,
- e. Use a welding fume capture and control system according to the manufacturer's specifications and instructions. The owner/operator

must maintain records of, and comply with, written manufacturer's instructions in the event that this practice is employed.

The owner/operator must retain documentation of which management practices are employed on site and the date(s) of any changes to the work practices employed on site in accordance with condition 10.

[40 CFR 63.11516(f)(2)]

9. The owner/operator must develop a Site-Specific Welding Emissions Management Plan, which at a minimum, must contain the information specified below. A copy of this plan must be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:

- a. Company name and address;
- b. A list and description of all affected welding operations;
- c. A description of all management practices and/or fume control methods in place;
- d. A list and description of all management practices and/or fume control methods currently employed for the welding affected source;
- e. A description of additional management practices and/or fume control methods to be implemented pursuant to condition #9, and the projected date of implementation; and,
- f. Any revisions to a Site-Specific Welding Emissions Management Plan must contain copies of all previous plan entries.

The following information within the Site-Specific Welding Emissions Management Plan must be updated annually and submitted with the annual report required by condition #4:

- a. Company name and address;
- b. A list and description of all affected welding operations; and,
- c. A description of all management practices and/or fume control methods in place at the time of any opacity exceedance(s).

[40 CFR 63.11516(f)(8)]

10. The owner/operator shall maintain a log for this welding operation, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:

- a. Date and duration (in hours) that welding operations were in progress;
- b. Manufacturer, type and trade name of welding consumable used;
- c. A current Safety Data Sheet (SDS) for each welding consumable used;
- d. All manufacturer's specifications, instructions, and recommended maintenance procedures for welding equipment. For all instances in which manufacturer documentation is not available, the owner/operator must develop, maintain, and comply with site-specific Standard Operating Procedures that are based upon available manufacturer documentation for similar equipment, to the extent possible;
- e. Monthly and consecutive twelve month total (in pounds) of welding consumables used;
- f. Records of all fugitive emissions determinations, performed in accordance with condition #12, including the date and results (including the six-minute opacity, as measured) of every visual determination, date and description of any corrective actions and follow-up visual determinations made after corrective actions were completed;
- g. Records of all visible emissions determinations (if required), performed in accordance with conditions #13 and #14, including the date and results of every visual determination (average of the six-minute opacity, as measured by the observation), any required corrective actions and follow-up visual determinations made after corrective actions were completed;
- h. Copy of Site-Specific Welding Emissions Plan, as required by condition #10;
- i. Copy of initial notification as required by 40 CFR 63.11519(a) and condition #3;
- j. Copy of annual certifications as required by 40 CFR 63.11519(b) and condition #4; and,
- k. Copy of Standard Operating Procedures (or equivalent).

[District Rule 1320; 40 CFR Subpart 63 Section 63.11516(f)]

11. Visual determination of fugitive emissions must be performed at the primary vent, stack, exit, or opening from the building containing the welding operations, according to the procedures of EPA Method 22, of 40 CFR part 60, Appendix A-7. These must be conducted while welding operations are in process. The duration of each EPA Method 22 test must be at least 15 minutes, and visible emissions will be considered to be present if they are detected for more than 6 minutes of the 15 minute period.

- a. Daily: Visual determinations of fugitive emissions must be performed once per day while welding operations are in process. If observations and records demonstrate that no visible emissions are detected in 10 consecutive daily Method 22 tests, the owner/operator may elect to comply with item b. of this condition, in lieu of item a.;
- b. Weekly: Perform an observation of visible emissions once every 5 business days (or 1 calendar week) while welding operations are in process. If fugitive emissions are detected during these tests, the owner/operator shall resume Method 22 testing once per day while

welding operations are in process according to item a. of this condition. If observations and records demonstrate that no visible emissions are detected in 4 consecutive weekly Method 22 tests, the owner/operator may elect to comply with item c. of this condition, in lieu of item b.;

c. Monthly: Perform an observation of visible emissions once per 21 business days (or 1 calendar month) while welding operations are in process. If fugitive emissions are detected during these tests, the owner/operator shall resume Method 22 testing once per 5 business days (1 calendar week) while welding operations are in process according to item b. of this condition. If observations and records demonstrate that no visible emissions are detected in 3 consecutive monthly Method 22 tests, the owner/operator may elect to comply with item d. of this condition, in lieu of item c.;

d. Quarterly: Perform an observation of visible emissions once per 60 business days (or 3 calendar months) while welding operations are in process. If fugitive emissions are detected during these tests, the owner/operator shall resume Method 22 testing once per 21 business days (1 calendar month) while welding operations are in process according to item c. of this condition.

If visible fugitive emissions are detected during any visual determination conducted under this condition, the owner/operator must perform and keep record of, corrective actions that include, but are not limited to, inspection of welding fume sources and evaluation of the proper operation and effectiveness of the management practices or fume control measures implemented in accordance with condition #13.

[District Rule 401; 40 CFR 63.11516(f)(3)]

12. If visible emissions are detected in accordance with condition #12 more than once during any consecutive 12-month period, the owner/operator shall conduct a visual determination of emissions opacity, according to the procedures of EPA Method 9, of 40 CFR part 60, Appendix A-4. These must be conducted while welding operations are in process. The duration of the EPA Method 9 test must be 30 minutes.

a. Daily (Tier 2 or 3): Visual determinations of emissions opacity must be performed once per day while welding operations are in process. If observations and records demonstrate that no exceedances of 20 percent opacity are detected in 10 consecutive daily Method 9 tests, the owner/operator may elect to comply with item b. of this condition, in lieu of item a.;

b. Weekly (Tier 2 or 3): Perform an observation of emissions opacity once every 5 business days (or 1 calendar week) while welding operations are in process. If opacity greater than 20 percent is detected during these tests, the owner/operator shall resume Method 9 testing once per day while welding operations are in process according to item a. of this condition. If observations and records demonstrate that no exceedances of 20 percent opacity are detected in 4 consecutive weekly Method 9 tests, the owner/operator may elect to comply with item c. of this condition, in lieu of item b.;

c. Monthly (Tier 2 or 3): Perform an observation of emissions opacity once per 21 business days (or 1 calendar month) while welding operations are in process. If opacity greater than 20 percent is detected during these tests, the owner/operator shall resume Method 9 testing once per 5 business days (1 calendar week) while welding operations are in process according to item b. of this condition. If observations and records demonstrate that no exceedances of 20 percent opacity are detected in 3 consecutive monthly Method 9 tests, the owner/operator may elect to comply with item d. of this condition, in lieu of item c.;

d. Quarterly (Tier 2 or 3): Perform an observation of emissions opacity once per 60 business days (or 3 calendar months) while welding operations are in process. If opacity greater than 20 percent is detected during these tests, the owner/operator shall resume Method 9 testing once per 21 business days (1 calendar month) while welding operations are in process according to item c. of this condition.

For each visual determination of emissions opacity in accordance with Method 9, that shows opacity not exceeding 20 percent, but greater than zero, the owner/operator must perform, and keep records of, corrective actions, including inspection of all welding fume sources, and evaluation of the proper operation and effectiveness of the management practices or fume control measures employed at this facility.

If, after 2 years of quarterly testing, according to item d. of this condition (eight observations), the results of all Method 9 tests show no exceedances of 20 percent opacity, the owner/operator may resume Method 22 testing according to condition #12, item a. (daily) in lieu of the visual determinations required by this condition.

[District Rule 401; 40 CFR 63.11517(d)]

13. If any visual determination of emissions opacity performed in accordance with condition #13 shows an opacity reading exceeding 20 percent, the owner/operator must comply with the following requirements:

a. Revise Site-Specific Welding Emissions Management Plan: The owner/operator must prepare and implement a revised Site-Specific Welding Emissions Management Plan within 30 days; and,

b. Daily Method 9 Readings: During the 30 day period for the preparation or revision of the Site-Specific Welding Emissions Management Plan, the owner/operator must perform daily visual determinations of emissions opacity as specified in condition #13 using EPA Method 9, at the primary vent, stack, exit, or opening from the building containing the welding operations.

Any exceedances of 20 percent opacity must be reported with the annual report, in accordance with condition #4.
[40 CFR 63.11516(f)(7)]

14. 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]